ABOUT THE INSTITUTE

International Institute of Information Technology Hyderabad (IIITH) is an autonomous university, founded as a not-for-profit public private partnership (N-PPP) in 1998, and is the first IIIT in India under this model. Over the years, the institute has evolved strong research programmes in various areas, with an emphasis on technology and research with applications to industry and society.

The institute facilitates interdisciplinary research and a seamless flow of knowledge. Several world-renowned centres of excellence are part of IIITH’s research portfolio. It has established various joint collaborations and co-innovation models via an industry outreach arm. This spans significant national and multinational companies.

Its innovative curriculum allows students the flexibility of selecting their courses and projects. Apart from academics the institute provides students with a comprehensive environment that promotes art and culture, sports, societal contributions and self-governance. Even undergraduate students get to participate in ongoing research and technology development - a rare opportunity in India. As a result, a vibrant undergraduate programme co-exists along with a strong postgraduate programme.
PANEL OF PAST DIRECTORS

Prof. Kishore Kothapalli
(Ex-officio) Dean (Academic),
International Institute of
Information Technology,
Hyderabad (IIITH)

Prof. C V Jawahar
(Ex-officio) Dean (RnD),
International Institute of
Information Technology,
Hyderabad (IIITH)

Prof. K S Rajan
(Secretary), Registrar,
International Institute of
Information Technology,
Hyderabad (IIITH)

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Former Director, Indian Institute
of Technology (Banaras Hindu
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Internet Evangelist, Google

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Dr. Sujit Kuthirummal
Senior Staff Software Engineer
Waymo, USA

Deepthi Singh Sharma
Sr. Technical Program
Manager, Walmart Labs India
As IIIT Hyderabad prepares to enrich the world with about 500 highly capable young men and women graduates of 2022, let us reflect on their academic journey. Their world turned upside down in March 2020 by a global pandemic. The Bachelors and Masters students did most of the heavy courses in an online mode, without the interactions with classmates and teachers that enrich the academic experience. Inherent grit made them work hard and focus on academics amidst everything that was going on around them. This is perhaps the most resilient batch to graduate from the Institute. Life throws challenges at each of us frequently enough. Ploughing on towards the goals while keeping one’s composure is what the brave do. Today’s graduates can congratulate themselves for their achievements. Learning from different experiences takes one ahead; brooding over what was lost keeps us back in life. I urge the graduates and their families to celebrate this occasion in a way only you can.

I also implore you to be particularly kind to the less fortunate individuals in our society. Competent, creative, and caring individuals can transform the world into a much better place. IIIT Hyderabad dreams of the lasting glory that graduates bring to it. The Institute is much beyond its faculty, staff, and students. The true treasure of the Institute lies in its wide network of alumni who carry its tiny spark wherever they go. The alumni must engage with the Institute and help take it to great heights in different ways. As the newest alumni of IIIT Hyderabad, the graduates of today can join that process.

I wish you all the very best in your professional journey that lies ahead!
Professor Alison Noble OBE FRS FREng is the Technikos Professor of Biomedical Engineering at the Institute of Biomedical Engineering (IBME), University of Oxford.

Professor Noble is a biomedical engineer, best known for her inter-disciplinary academic research on machine-learning applied to ultrasound image analysis and associated clinical applications in high income low-and-middle-income countries healthcare settings. She has worked in academia and in industry in the UK and the USA.

Prof. Noble received the Royal Society Gabor Medal for her inter-disciplinary research contributions in 2019, and the same year received the Medical Image Computing and Computer-Assisted Interventions (MICCAI) Society Enduring Impact award. She co-founded Intelligent Ultrasound Ltd to commercial research from her laboratory which was acquired by MedaPhor Group Plc in 2017 (now called Intelligent Ultrasound Group).

Professor Noble is a former president of the Medical Image Computing and Computer Assisted Intervention (MICCAI) Society, and her recent UK national roles include Chair of the Engineering and Physical Sciences Research Council (EPSRC) Healthcare Technologies Strategic Advisory Team, and a member of the UK Research Excellence Framework (REF) 2021 Subpanel 12 (Engineering). She is an active Fellow of the Royal Academy of Engineering and of the Royal Society (recently elected a Council member), an ELLIS (European Lab for Learning and Intelligent Systems) Fellow, a Fellow of the MICCAI Society, and a former Trustee of the Institute of Engineering Technology (IET). She received an OBE (Order of the British Empire) award for services to science and engineering in 2013.
ACADEMIC PROGRAMMES

The Institute has high-quality B.Tech programmes in Computer Science Engineering (CSE) and Electronics Communication Engineering (ECE). An innovative curriculum gives ample flexibility in selecting courses and undertaking research projects at the undergraduate level. Our trans-disciplinary programmes effectively combine Computer Science with domains such as Natural Sciences, Linguistics, and Humanities. Our Master’s programmes include both technology and domain areas. In the last academic year, we introduced M.Tech in Product Design and Management. I am delighted to inform that over 26% of today’s graduates – 155 out of 556 – earned a degree based on a high-quality thesis.

IIIT Hyderabad has several admission channels such as the JEE Mains, multiple Olympiads, SAT examinations, an in-house Undergraduate Entrance Examination (UGEE), and a lateral entry scheme into the dual-degree programmes for students completing their 2nd year B.E. or B.Tech from other institutes. The Special Channel (SPEC) admissions are extended to Jawahar Navodaya Vidyalaya (JNV) students this year. In the last round of admissions, we achieved our target of admitting 25% women students through the JEE Channel.

The Covid-19 pandemic dominated all aspects of life globally in the past two years and IIIT-Hyderabad was no exception. It is however refreshing to note that from March 2022, the institute has been able to move to in-person teaching and evaluations. This step was made possible with the coordinated efforts of all stakeholders including students, faculty, and other employees. Most students returned to campus during the months of February and March and have been advised to keep following the appropriate precautionary measures to prevent the spread of the virus. With all-around cooperation, we are happy to note that normal academic activities including in-person classes resumed in March 2022.

IIIT Hyderabad arranged multiple vaccination drives to provide vaccines against Covid-19 to all members of our campus including, students, faculty, staff, and other support workers. Despite the campus community being doubly vaccinated, many students and faculty were infected with the virus during the third wave of the pandemic; 2 Almost everyone had mild symptoms, but we deeply regret the passing away of a third-year dual degree student, T H Arjun.
The institute’s programmes at the undergraduate and postgraduate levels combine course work with research and development. Students get actively involved with technology development, some of which has been adopted by the industry. The institute offers:

**Bachelor of Technology**

**Single Degree Programmes**
- Computer Science and Engineering (CSE)
- Electronics and Communication Engineering (ECE)

**Dual Degree Programmes**
- Computer Science and Engineering and Master of Science in Computer Science and Engineering by Research (CSD)
- Electronics and Communication Engineering and Master of Science in Electronics and Communication Engineering by Research (ECD)
- Computer Science and Master of Science in Computational Linguistics by Research (CLD)
- Computer Science and Master of Science in Computational Natural Sciences by Research (CND)
- Computer Science and Master of Science in Computing & Human Sciences by Research (CHD)

Postgraduate programmes in IT and its applications to various related fields:

**Master of Science by Research**
- Computer Science and Engineering
- Electronics and Communication Engineering
- Computational Natural Sciences
- Computational Linguistics
- Bioinformatics
- IT in Building Science
- Civil Engineering
Master of Technology

- Computer Science and Engineering
- Computer Science and Information Security
- Computer Aided Structural Engineering
- Product Design and Management

Master of Philosophy

- Computational Linguistics

Doctor of Philosophy

- Computer Science and Engineering
- Electronics and Communication Engineering
- Computational Natural Sciences
- Bioinformatics
- Computational Linguistics
- Civil Engineering
- IT in Building Science
- Spatial Informatics
- Cognitive Science
- Human Sciences

PG Student Status Programme (PGSSP)
For working professionals in Hyderabad who are keen on pursuing their interest in a wide range of disciplines.

Master of Science in Information Technology (MSIT)
A two year innovative multi-university interdisciplinary post-graduate programme in Computer Science offered by Consortium of Institutions of Higher Learning (CIHL), formed by the Universities.

Along with high caliber interdisciplinary IT education, IIITH also grooms global citizens. The overall nurturing of each student is achieved through an integrated curriculum with a wide range of IT courses, relevant research projects, interaction with industry, preparation in entrepreneurship, courses in languages, humanities, social sciences, and a strong programme in human values.
MERITORIOUS STUDENTS

THE IIITH GOLD MEDAL 2022

The IIITH Gold Medal is awarded in recognition of outstanding academic performance throughout the year to the student with the highest cumulative grade point average in their graduating class. The IIITH Gold Medal is awarded to:

Jivitesh Jain
B.Tech in CSE

PROGRAMME GOLD MEDALS

Jivitesh Jain
B.Tech in CSE
Karan Mirakhor
B.Tech in ECE
Saraansh Tandon
Dual Degree in CSE
C Athreya
Dual Degree in CSE (Lateral Entry)
Rahul Sajnani
Dual Degree in ECE

Yashas Samaga B L
Dual Degree in CNS
Sayar Ghosh Roy
Dual Degree in CL
Dhruv Nareshbhai Sachdev
M.Tech in CSE
Sheik Karimunnisa Begum
M.Tech in CASE

BEST ALL-ROUNDER 2022

Tanvi Karandikar
B.Tech in CSE
Madhukar Dwivedi
Master of Science in CSE by Research

Notable contributions and performances in different areas, viz. academics, extracurricular activities and IIITH services, are to be considered for the selection of the best all-rounder.

The gold medals for the Dual Degree students will be presented at the time of their graduation.

IIITH, 21st Convocation 2022
RESEARCH CENTRES

IIT Hyderabad is organised as a set of research centres and laboratories instead of schools and departments. Each research centre focuses on a broad problem area and brings together experts from varied backgrounds to conduct research and development on specific aspects in a problem area, constantly pushing the boundaries of research to the next level. The research centres and laboratories at IIT Madras are either focused on creation and development of new technologies or application of technologies to unusual domains in innovative ways.

Its research activities are organised around 11 technology, 10 domain and 5 development centres. Each centre has one or more research labs based on their areas of focus headed by a full-time faculty member of IIT Madras. All faculty are affiliated to one or more centres or labs, depending on their areas of research. The research-focused B.Tech students, MS and Ph.D students are also affiliated to the centres, based on their area of thesis/research. All research activities of the centre are overseen by the Dean, R&D. The centres also organise conferences or other activities in their areas and conduct executive education programmes. The academic activities are organised directly at the level of the institute (overseen by the Dean, Academics).

The institute engages with industry through various models (e.g. research consultancy, sponsor research, technology transfer and co-innovation). All industry engagements are led by a faculty member and managed by the Industry Outreach office.
### Technology
- Signal Processing and Communications Research Center (SPCRC)
- Data Sciences and Analytics Center (DSAC)
- Language Technologies Research Center (LTRC)
- Robotics Research Center (RRC)
- Center for Security, Theory and Algorithms (CSTAR)
- Software Engineering Research Center (SERC)
- Center for Visual Information Technology (CVIT)
- Center for VLSI and Embedded Systems Technology (CVEST)
- Computer Systems Group (CSG)
- Machine Learning Lab (MLL)
- Centre for Quantum Science and Technology (CQST)

### Domains
- IT for Agricultural and Rural Development (ITARD)
- Center for IT in Building Science (CBS)
- Cognitive Science (CogSci)
- Center for Computational Natural Sciences and Bioinformatics (CCNSB)
- Earthquake Engineering Research Center (EERC)
- Center for IT in Education (CITE)
- Human Sciences Research Group (HSRG)
- Center for Education Technology and Learning Science (CETLS)
- Lab for Spatial Informatics (LSI)
- Research Centre for eGovernance (RCeG)

### Combined Development
- Center for Innovation and Entrepreneurship (CIE)
- Center for Open Software (COS)
- Human Values Cell (HVC)
- Raj Reddy Center for Technology and Society (RCTS)
- iHub-Data

- Kohli Center on Intelligent Systems (KCIS)
- Smart City Research Center (SCRC)
- Applied Artificial Intelligence (AI) Research Centre (INAI)
In line with the core visions of IIITH, the Kohli Centre on Intelligent systems (KCIS) was established in 2015 with funding from Tata Consultancy Services (TCS) Foundation to give a fillip to research, teaching, and entrepreneurship in the broad field of Intelligent Systems. With continuous support from the Tata Consultancy Services (TCS) Foundation since its inception the center has managed to attract talents and resources from across the country to work on language technology, computer vision, data sciences, robotics, cognitive sciences and machine learning. An agreement was signed with TCS Foundation in September 2018 for the second phase of funding of KCIS for the next 5 years.

The centre is led and steered by an advisory board consisting of Turing Award winner Dr. Raj Reddy, an early pioneer in Artificial Intelligence and University Professor at Carnegie Mellon University (CMU); Dr. Manuela M. Veloso, Herbert A Simon University Professor, School of Computer Science, Carnegie Mellon University, USA; and Dr. Mark S Fox, Director, Centre for Social services Engineering Department of Mechanical and Industrial Engineering, University of Toronto, Canada and a governing board consisting of Prof P J Narayanan (Chair), Director, IIITH & K Ananth Krishnan (Co-Chair), Chief Technology Officer of Tata Consultancy Services (TCS).

Over the years KCIS has followed a collaborative approach toward research, education and outreach on intelligent Systems (IS) by undertaking joint projects with other academic institutions as well as research labs run by governments and leading corporates. Events and activities like industry talks, seminars, workshops and symposiums are regular happenings of KCIS involving more and more audience to work in the fields of IS.

Since 2020, KCIS has also started granting prestigious full time research and fellowship programs to attract talent for carrying out dedicated research on intelligent systems. KCIS has awarded 6 Kohli Research Ph.D Fellowships to candidates with a research aptitude and an interest to work in the broad areas of AI aligned with KCIS. The Center has 10 PhD students from KCIS who have external competitive fellowships from TCS, Government, IIT Palakkad, IHub-IIT Delhi. Two students received URAM scholarships & eight received IHub-data fellowships.

The team of KCIS faculty, research students, research staff and undergraduate students have produced 298 papers in 2021 in top rated conferences and peer reviewed journals and in 282 papers in the year 2020.

IIITH collaborates with several national and international institutions. It plays leading roles in several national, multi-institutional projects involving dozens of institutions in a wide range of areas starting from machine translation to information retrieval and perceptual engineering. The institute constantly paves the path towards being a globally visible academic institution with positive impact on society with KCIS enabler grants and Kohli Challenge Proposal projects.
Smart City Research Center

Leveraging its research, core and domain strengths, Smart City Research Centre established the Smart City Living Lab in collaboration with technology partners EBTC and Amsterdam Innovation Arena (AIA) with support from MEITY, Smart City mission and Government of Telangana. It is a joint effort where several research centres at IIITH collaborate and develop solutions for smart cities. It also includes corporate partners Silicon Labs, St. Gobain and Intel.

In the Living Lab, an open-innovation ecosystem, 150+ IoT sensor nodes have been deployed across campus to monitor air quality, water quality/quantity, weather, energy parameters, and more. The data is posted to a OneM2M server via 4G, Lorawan, Wi-Fi, Wi-SUN etc. for data processing and predictive control. Through this process, over 10 publications have been published and two patents are on the way. Three challenges and roundtables, as well as several workshops have been conducted on topics related to this concept.

A data warehouse is developed to archive large volumes of sensor data by integrating with OM2M platform leveraging oneM2M subscription technique to gain meaningful insights. Interface with IUDX is implemented for the seamless data exchange between IIITH's data monitoring system and data consumers across the country.
Raj Reddy Center for Technology and Society (RCTS)

Raj Reddy Center for Technology and Society (RCTS) was established to celebrate and amplify the passion of Prof. Raj Reddy in education and research for the bottom of the pyramid. The center aims for strong national and global impacts to society through technology-based solutions. It aspires to be a global hub to bring the latest research to solve societal problems. Sustainability and scalability are the key concerns in all engagements at the center.

RCTS takes a bottom-up, problem-centred approach to leverage research and technologies in solving societal problems. It identifies a few socially relevant themes and takes up projects in them to create a sequentially linked amplification of impact.

Raj Reddy is a University Professor of Computer Science and Robotics and Moza Bint Nasser Chair in the School of Computer Science at Carnegie Mellon University, where he served as the founding Director of the Robotics Institute and as the Dean of the School of Computer Science. He served as co-chair of the President’s Information Technology Advisory Committee and has been awarded 11 honorary doctorates. Dr. Reddy is the recipient of the Legion of Honor, Padma Bhushan, Honda Prize, Vannevar Bush Award, and the 1994 Turing Award (jointly with Edward Feigenbaum) “for pioneering the design and construction of large scale artificial intelligence systems, demonstrating the practical importance and potential commercial impact of artificial intelligence technology.”
Technology Innovation Hub

iHub-Data is one of the Technology Innovation Hubs (TIHs) established at IIIT Hyderabad as part of the National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS). It is dedicated to enhancing national research and deploying solutions in Data Banks, Data Services and Data Analytics and focuses on putting together large-scale datasets as well as develop solutions based on that data through Applied Research. The research is primarily focused towards creating the highest global academic standards for the betterment of society.

The Hub coordinates, integrates, and amplifies basic and applied research in broad Data-Driven Technologies as well as its dissemination and translation across the country. It collaborates with international experts in associated areas that include joint research, visiting schemes for international experts, involvement in the processes and problems of the Hub, etc. Its workshops, conferences, and meetings bring global experts in direct contact with Indian researchers and students in associated areas.
Research and Collaborations

IIT Hyderabad is structured around research centres and labs and not conventional departments. Each research centre focuses on a broad problem area and brings together experts from varied backgrounds to conduct research and development on specific problem areas, constantly pushing the boundaries of research to a higher level. The research centers, laboratories and domain centers utilise technologies in diverse disciplines to find innovative solutions to challenges faced by society. This year, the institute clinched 8 consortium projects, 5 joint collaboration projects and over 36 faculty-driven individual projects. Apart from R&D projects, 6 faculty members were awarded faculty research award grants/unrestricted grants from Verisk, Mahindra & Mahindra and Qualcomm.

MeitY has sanctioned projects to IITH worth nearly Rs. 21 crores under National Language Translation Mission (NLTM) mission of Govt of India. The projects include Machine Translation (MT), Optical Character Recognition (OCR), etc. with large activity taking place in that front. MeitY has also funded the Blockchain and Machine Learning Powered Unified Video Know Your Customer Framework.

A new research centre was established as C2S2 under the headship of Prof Ponnamraju. It pursues interdisciplinary research at the intersection of Computer Science and Social Science to solve real-world problems and create a positive impact in the community through integration of various fields. The centre also seeks to spread awareness about CSS research in India. A Precog Research Lab was formed under C2S2 composed of a group of researchers who study, analyse and build different aspects of social systems (e.g. social web systems like Twitter, Facebook), including their security and privacy. By understanding and measuring complex networks, Precog Research Lab tries to build solutions for social good. Its work primarily derives from Data Science, Computational Social Science, Social Computing, Machine Learning and Natural Language Processing.

IITH’s Raj Reddy Center for Technology and Society (RCTS) is leading the way toward a tech-savvy rural India. A think-tank is going global, percolating the essence of emerging technologies in public health and grassroot education to solve societal problems at the base of the socio-economic pyramid. The Raj Reddy Center will facilitate solutions like tele-medicine and remote consultation for the workflow models of various healthcare NGOs to ease the shortage of doctors in rural areas. RCTS has entered into collaborations with leading NGOs to understand the esoteric needs of different geographies and help them with home-grown solutions by local innovators. Virtual IoT Labs is one such initiative that enables remote access of the lab through a combination of technologies. IITH has also partnered with Telangana state machinery to provide an innovation hub at the school level. The IITH CogSci lab has designed “Ask Agastya”, a speech interface application for Bangalore-based NGO Agastya International Foundation.

The institute collaborates with several national and international institutions and plays lead roles in several multi-institutional projects and the list include LLG – Butor (Reunion Island – France), Carnegie Mellon University, University of Pennsylvania, INRIA, UC Berkeley, Hebrew University, Bauhaus University, University of the Aegean, University of Dundee, Oxford University, Dublin City University, University of Colorado, Ecole Centrale Paris, Oak Ridge National Laboratory, Aalto University, University of Cambridge, University of Quebec, Tampere University of Technology, Vrije Universiteit, National University of Rosario, University of Burgundy.
Uppsala University, University of Mainz, University of Paris-Sud, Michigan State University, University of Maryland, University of Shanghai, University of Leiden, Mälardalen University, University of Liverpool, University of Bordeaux and Lawrence Berkeley National Laboratory, the University of Aizu, Inopoli University, University of Agder, Yonsei University and Kathmandu University (KU), Nepal, Osmania Medical College, Hyderabad, Christian Medical College (CMC), Vellore, All India Institute of Speech and Hearing (AIISH), Mysore, KG Reddy College of Engineering and Technology and Kakinada Institute of Engineering & Technology, Andhra Pradesh

The institute is associated with national reputed organisations such as DRDO, ISRO, Dept. of Atomic Energy (DAE), MCEME, NRDC, BDL, BEL, Airport Authority of India (AAI), Survey of India etc. We have sponsored research projects from DST, DBT, MeitY, MHRD, SERB etc. IIITH collaborates with institutions like Aravind Eye Hospital and Sree Chitra Tirunal Institute for Medical Sciences to take our research directly to the grass-root level. IIITH also works with several industry-funded research projects which include Texas Instruments (TI), Bosch, Nissan, TCS, Intel, Amazon, Honeywell, NVIDIA, Rockwell Collins, Flipkart, Novartis, Microsoft, Hitachi, Saint Gobain, Siemens, CA Technologies, Mathworks, Renault-Nissan, Wells Fargo, OpenText, Qualcomm, Google, Applied Materials, Inshorts Media Labs, Cyient, STAR Sports India Pvt Ltd, Rapyuta Robotics Company Limited, Japan, Huawei Technologies India Private Limited, etc. The institute signed MoUs with IT&C Dept. Govt of Telangana & Prof Jayashankar Telangana State Agricultural University (PJTSAU), Hyderabad, Huawei Technologies India Private Limited, Anilinear Design Technologies Pvt Ltd, Rapyuta Robotics Company Limited, Intel Technology India Private Limited, Navam Innovation Foundation and Agasty International Foundation jointly, Buzzark Simulations Private Ltd, Chennai, Hyderabad Eye Research Foundation (HERF), L V Prasad Eye Institute (LVPEI), EPAM Systems India Private Limited, Hyderabad, Apollo Hospitals, Hyderabad, ZF India Private Limited, Steel Authority of India Limited - Bokaro Steel Plant, Forus Health Private Limited, Bangalore, National Payment Corporation of India, Mumbai, Infinity Identity Technologies Private Ltd, Hyderabad, Mishraan Semiconductor Private Limited and Centre for Sight Super Specialty Eye Hospital, Hyderabad. Collaboration with Pernod Ricard India Foundation (PRIF) granted Rs. 3 crores to support six startups and research in areas with social impact this year. IIITH’s collaboration with Ripple, a leading Silicon Valley financial technology company, continues for the Blockchain Centre of Excellence with a total support of $1M USD for over 5 years.
ACHIEVEMENTS

Our researchers have received national and international recognition at academic conferences and competitions. Some of the special achievements this year include:

**Academic**

Dr. Makarand Tapaswi was awarded Outstanding Reviewer at the Computer Vision and Pattern Recognition Conference (CVPR 2021).

Dr. Ravi Kiran Sarvadevabhattla was awarded the Sir Vithal N Chandavarkar Memorial Medal for the best thesis during the IISc Bangalore convocation 2021.

Pranay Gupta and Debnath Gupta under the mentorship of Dr. Ravi Kiran Sarvadevabhattla were super winners of this year’s edition of the prestigious Qualcomm Innovation Fellowship (QIF) award for their innovative proposal - Deep Neural Models for Generalized Synthesis of Multi-avatar Actions in the domain of Multimedia Computing.

Harshithanjani Athi and Rasagna Chigullapally under the mentorship of Dr. Lalitha Vadlamani and Dr. Prasad Krishnan were winners of this year’s edition of the prestigious Qualcomm Innovation Fellowship (QIF) award for their innovative proposal - List Decoding Reed-Solomon and Locally Repairable Codes: How far can we go? in the domain of Advances in Communication Techniques and Theory. This is the second consecutive fellowship award for the institute coming on the heels of last year’s win by a faculty team of Prof. Madhava Krishna and Dr. Vineet Gandhi.
Dr. Ankit Gangwal (PI), Dr. Sudipta Banerjee (Co-PI), Dr. Anoop M Namboodiri (Co-PI), and Prof. Kishore Kothapalli (Co-PI) - granted MeiY project fund for research work from 2022 – 2024 on Blockchain and Machine Learning Powered Unified Video Know Your Customer Framework. This is a joint project with Institute for Development and Research in Banking Technology (IDRBT) Hyderabad and IIT Bhilai with a total sanctioned budget of Rs 23.72 crore.

Dr. Ashok Kumar Das - features in the 10,000 Club of Google Scholar Citations. His Google Scholar h-index is 59 and i10-index is 171 with over 10,000 citations. He has also been appointed as an Associate Editor for Cyber Security and Applications (CSA) Elsevier journal and as an Associate Editor for the Journal of Cloud Computing (Springer) having 2020 SCI Impact Factor: 5.71.

Prof. C V Jawahar - received the ACM India Outstanding Contribution to Computing Education (OCCE) Award for 2021.

Prof. Nimmi Rangaswamy - invited to join the Editorial Board of Communication, Culture and Critique (CCC) journal. Published by the International Communication Association (ICA) and Oxford University Press. CCC is devoted to critical scholarship on communication, media, and cultural studies.

Prof. P Krishna Reddy - appointed as a member of jury committee, CSI SIG eGovernance Awards 2021.

Prof. Ponnurangam Kumaraguru - named Distinguished Member of the Association for Computing Machinery (ACM), inducted into the Academic Council of the LNM Institute of Information Technology (LNMIIT) and received the Flipkart Faculty Award for his work on security.
Prof. Pradeep Kumar Ramancharla - awarded Outstanding Concrete Engineer of Telangana 2021 by Indian Concrete Institute. This award is given annually for outstanding contribution in the field of concrete technology, promotion of concrete structures, research in concrete and more. He has also been appointed as a member of the Bridge Specifications and Standards Committee (BSSC) of the Indian Road Congress.

Dr. P Pravin Kumar Venkat Rao - elected as a Member of the Indian Association of Structural Engineers (IAStructE).

Prof. Pradeep Kumar Ramancharla appointed as an expert panel member of Bridge Specifications and Standards Committee (BSS) of the Indian Road Congress.

Dr. Ravi Kiran Sarvadevabhatta - awarded an unrestricted research gift from Google as part of its growing efforts to support excellent research in academia. This will support his follow-up research in collaboration with Pradeep Shenoy, Google Research on multi-object multi-part segmentation and visual scene understanding.

Dr. Syed Azeemuddin - selected as a co-guest editor for MDPI electronics special issue to help make decisions on RF CMOS-related papers.

Prof. Vishal Garg - elected as a member of the executive council of Alliance for an Energy Efficient Economy (AEEE), one of the leading organisations in India that works on creating awareness about energy efficiency as a resource. He has also been appointed Project Committee Voting Member (PCVM) in the Standing Standard Project Committee (SSPC) 90.2 - Energy Efficient Design of Low-Rise Residential Buildings of The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). Prof. Garg will be serving on the lighting subcommittee.
Dr. P Pravin Kumar Venkat Rao was awarded the Young Engineer of the Year Award-2021 by Institution of Engineers (India) in September.

Adithya Sunil Edakkadan working under the supervision of Dr. Abhishek Srivastava has been selected for the Chanakya Undergraduate Fellowship in Quantum Technologies by I-Hub Quantum Technology foundation, IISER Pune.

Dipanwita Guhathakurta and Pravalika Mukkiri won Micron’s flagship University Research Alliance (URAM) scholarships.

Research paper on Design and Implementation of 0.23 nJ/bit Reference-Spur-Free FSK/OOK Transmitter at 400 MHz for Wearable Health Monitoring by Dr. Abhishek Srivastava, Dr. Devarshi Das, IIT Ropar and Dr. M Shojaei Baghini, IIT Bombay was selected as one of the top contributions at IEEE Biomedical Circuits and Systems Conference (BioCAS-2021) held in Berlin, Germany. The selection of paper as one of the top contributions is usually equivalent to the Best Paper Award. The authors were not allowed to participate in the best paper award category as all the authors are professors.

Avantika Latwal working under the supervision of Dr. Rehana Shaik was awarded second prize under the theme of Geospatial Technologies in Water Resources Engineering for research work on Water Quality Estimation Using Remote Sensing Technique: A case study of Bhadra Reservoir, Karnataka at the 26th International Conference on Hydraulics, Water Resources and Coastal Engineering (HYDRO-2021 International) Sardar Vallabhbhai National Institute of Technology (SVNIT) Surat, Gujarat.

Dr. Chiranjeevi Yarra - awarded Prof. D J Badkas Medal for academic year 2019 - 2020 by the council of the institute for his best performance in Ph.D at IISc Bangalore.

I-Hub-Data fellowships - awarded to 20 research students between January 2021 – July 2022 for their potential to contribute to the mission of the center through their research objectives and projects.

Kohli Research Fellowships - awarded to Jhansi Mallada (Ph.D – ECE), Ruthwik Muppala (Ph.D – ECE) and Sarvesh Thakur (Ph.D – CSE) for the academic year 2021 – 2022.

Dr. Pawan Kumar - awarded Microsoft Academic Partnership Grant for his research on Optimization methods for Deep Learning.
BEST PAPER AWARDS

ASONAM-21

Rohit Saruja

What’s Kooking? Characterizing India’s Emerging Social Network, Koo

Prof. Pradeep K R

Prof. C V Jawahar

Aakash K T

Deployable AI conference

CVIP-2021 at IIT Ropar

Sailma Khan

Tejaswini V

Santjana G
Research work on *Bringing Linearly Transformed Cosines to Anisotropic GGX* by Aakash K T under the supervision of Prof. P J Narayanan received the best paper award at ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games (I3D) 2022.

Prof. C V Jawahar and his students Sanjana Gunna and Rohit Saluja were awarded the Best Paper Award for their paper on *Transfer Learning for Scene Text Recognition in Indian Languages* at the ICDAR 2021 workshop on camera-based document analysis and recognition (CBDAR 2021, 9th edition) in Lausanne, Switzerland.

Research work on *Classroom Slide Narration System* by Jobin K V Ajay Mondal working under the supervision of Prof. C V Jawahar won the IAPR best paper award at the 6th IAPR International Conference on Computer Vision & Image Processing held at IIT Ropar.

Research work on *A BIM Based Approach of Electrical Network Analysis and Applications Using GIS Tools* by Prof. K S Rajan, Prof. Nagaraja Ravoori Tejaswini Venkumahanti, Kesava Rao Pyla and Sinha S K received the Best Paper Award at the 2nd International virtual conference on Sustainable Construction Technologies and Advancements in Civil Engineering (ScTACE 2021), Bhimavaram.

Manisha Padala and Sankarshan Damle, Ph.D students working under the guidance of Dr. Sujit Gujar received Best Paper Award at the first Indian conference on Deployable AI conference (DAI) organized by Robert Bosch Center for Data Science and AI, IIT Madras for their work on *Building Ethical AI: Federated Learning Meets Fairness and Differential Privacy*. They received a cash prize of USD 500.

Prof. Ponnurangam Kumaraguru and his students received the best student paper award for their research work on *What’s Kooky? Characterizing India’s Emerging Social Network*. Koo at the 2021 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM-21).

Prof. Pradeep Kumar Ramancharla’s external student, Mangesh Shenckar from IIT BHU received Indian Concrete Institute (ICI) Journal’s best paper award for his work on *Response reduction factor of RC-infilled frames by using different methods*.

Salma Khan, a Ph.D student working under the supervision of Dr. Syed Azeemuddin received the best student paper presentation award at Asia Pacific Conference on Circuits and Systems (APCCAS-2021) for her research work on *High-Speed CMOS Ramp Generator using Proteretic Comparator*. 
OTHER AWARDS AND RECOGNITIONS

A team of 8 students - Aditya Kadam (UG3), Annmol Goel (RA), Jivilesh Jain (UG4), Mallika Subramanian (UG4), Manvith Reddy (UG4), Prashant Kodali (Ph.D), Arjun T H (UG3), Jushaan Singh Kaira (UG4, Delhi Technological University) and faculty members Prof. Ponnurangam Kumaraguru and Prof. Manish Shrivastava ranked 3rd at the Hate Speech and Offensive Content Identification in English and Indo-Aryan Languages (HASOC-2021) shared task as a part of the CEUR workshop organized by FIRE 2021.

Dr. Afzal Hussain authored a textbook titled Introduction To Flexible Electronics. The textbook covers topics from a simple introduction to why things are flexible, to the materials and their properties that make up all electronic devices; from the integration strategies to the applications in devices that are now available such as flexible processors, memory, display, photovoltaics, and more.

IIIT-CIE incubated start-up DreamVu was awarded the Vision Systems 2021 Innovators Award for its patented omnidirectional 3D Vision Systems.

Team Cerebrus, Robotics Research Center (RRC) ranked 2nd at ARTPARK Robotics Challenge conducted by IISc Bangalore’s Innovation Hub.

Team Lumos, Robotics Research Center (RRC) ranked 3rd at an international robotics competition organized by IEEE International Conference on Robotics and Automation (ICRA 2022), Philadelphia.

Prof. Shatrunjay Rawat - nominated to the Insurance Ombudsman Advisory Committee of Insurance Regulatory and Development Authority India (IRDAI).

Indian patent granted to Dr. Abhishek Srivastava, CVEST and his collaborators Dr. Devarshi Das; IIT Ropar, Dr. M Shojai Baghini, IIT Bombay for their research work on SAW Resonator Oscillator Based Injection Locked OOK Transmitter.
IIITH won Best User Application award at an international oneM2M hackathon organised by Korea Electronics Technology Institute to commemorate its 30th anniversary.

Dr. Nazia Akhtar received a special commendation from the jury of Jawad Memorial Prize for her Urdu-English translation of Zeenath Sajida’s Urdu short story Chhottam Jaan.

Mission Parikshit was one of the winners of the Kohli Challenge Proposal Scheme funded by Kohli Center on Intelligent Systems (KCIS) endowed by TCS foundation. Dr. Abhishek Srivastava was the project’s principal investigator and Dr. Anshu Sarje, Dr. Kavita Vemuri and Prof. Bapi Raju were co-principal investigators.

IIITH-TCS team were winners at PowerTAC ’21, an annual niche tournament that simulates retail electric power markets.

Dr. Raghu Reddy and his students Neeraj Mathur and Sai Anirudh Karre were granted a U.S patent for their research work on system and method for evaluating and facilitating customized guidelines using usability code pattern analysis.

Rishabh Mishra, Center for VLSI and Embedded Systems Technology (CVEST)’s extensive article on Solar Powered Small Unmanned Aerial Vehicles: A Review was published in Energy Technology journal and was accepted as the cover article of the journal for its uniquely interesting topic.
Rishikesh Bose, MS 1st year; Ayush Kumar Lall, 3rd year Dual Degree; Nilesh Bawankar, MS 1st year and Ansh Khandelwal, 3rd Year BTech Honors won Smart City Living Lab and Govt. of Telangana’s water challenge hackathon. The team was led by Dr. Sachin Chaudhuri on the theme, low cost retrofit for digitization of analog water meter, a viable replacement of expensive digital water meters.

IIITH team tests_protocol comprising Sai Anirudh Peduri, Arjun Pitchanathan and Devansh Gautam ranked 46 at the ACM-ICPC competition 2020, ahead of teams from Stanford, Virginia Tech, Purdue, etc.

Dr. Vinoo Alluri was featured in the fifth edition of The Life of Science’s (TLoS) yearly desktop calendar. It featured 48 Indian women, transgender and non-binary persons working in various fields of science during 2022 – 2023. The calendar was launched on 11 February to mark International Day of Women and Girls in Science. Dr. Alluri was featured under the theme of Music.

India Today’s July 2022 survey ranked IIITH as India’s number 2 in All India Best Engineering Colleges.

IIITH ranked as India’s number 1 private engineering institution, as well as India’s number 1 and Telangana’s number 1 private university in a survey conducted by Education World India higher education rankings for 2022 - 23.

DataQuest Best T-Schools survey ranked IIITH 3rd at the All India Level and 2nd in the south zone. The survey focussed on UG programs offered at higher education institutions and technical institutions. The Institute also ranked 3rd in DataQuest’s Employability Index Survey 2021.


IIITH ranked prominently in different categories of the Week - 1st in private engineering colleges, south zone; 1st in private engineering colleges, Hyderabad; 2nd in all India private engineering colleges, 2nd in engineering colleges, south zone and 14th in all India engineering colleges.

Education World India Higher Education Rankings 2021 – 22 survey ranked IIITH India’s number 5 and Telangana’s number 1 private university.
The Institute's Education Outreach has made efforts to deliver executive education programs and College research affiliate program throughout the year. The College Research affiliate program is a three-facet program that caters to the needs of students and faculties as well as creates value for the institutes. It impacted seven participating colleges (KIET, HITAM, KGRCE, VCE, GNITS, SVPCE and SCE), 555 students, and 25 faculties in 2 technology areas - IoT and speech processing. For the next cohort, we are signing up the MoU with more colleges to amplify the research connections.

The executive education programs are being delivered in a hybrid model and have produced over 3,400 professionals in about 3 years. Currently, the 19th batch of the Artificial Intelligence and Machine Learning (AI&ML) program in collaboration with Talent Sprint is in place. This joint initiative was rated as one of the best in the country, being recommended by NASSCOM. A similar program in Software Engineering for Data Science (currently 3rd batch), Blockchain, and Distributed Ledger Technologies (currently 7th batch) has also seen much traction in the past year. Recently there is a tie-up for the e-Masters program with the National Payment Corporation of India (NPCI) to inbuilt the DeepTech skills in their employees.

This year our flagship annual R&D Showcase was held in a hybrid model, both physically on campus and for the first time on metaverse on the 12th of March 2022. The theme for the showcase was Pandemic Tech-Away. The keynote speaker for the event was Vinay Nandigam, Director CCMB who spoke on 'How Research is Integral to the World Today and Tomorrow'. As a part of the showcase, we also had confluence roundtables on Quantum Technology and Cyber-Physical Systems: Hardware Software Convergence with panelists from diverse backgrounds.

The Institute and its faculty from research centres including Kohli Center on Intelligent Systems (KCIS) have organized various International and National Conferences, Workshops, Distinguished lectures and, talks by eminent personalities. Several individuals from industry and academia have shared their wisdom with our students, faculty, and entrepreneurs. Some of them are:

- Prof. Qing Zhao, Cornell University gave a Distinguished Lecture on Random Walk on a Tree for Stochastic Optimization and Learning on 10th August 2021.
- Kohli Centre on Intelligent Systems (KCIS) commemorated the birth anniversary of Sri F C Kohli on 19th March 2022 with a special program celebrating his life through research and innovation.
- Organized 5th Summer School on Artificial Intelligence with a focus on Computer Vision & Machine Learning held from 2nd to 31st August 2021.
- Organized a Summer School on 3-D Vision - held from 22nd to 28th May 2022.
- Organized a Crash course on blockchain technologies - jointly conducted by IIT Hyderabad, IIT-Hyderabad, Centre for Development of Advanced Computing (CDAC), and National Informatics Centre (NIC) from 7th August to 4th September 2021.
- Conducted a workshop on Water Quality Management and Pollution Control under Climate and Anthropogenic Influences held on 26th February 2022.
- A five-day refresher Workshop was conducted on Universal Human Values (UHV) in the Telugu Language held during 5-9 Sep. 2021; A 12-day advanced Universal Human Values (JeevanVidya) coordinated by Prof. R Pradeep Kumar (on Virtual mode) held from 4th to 30th October 2021.
- 11th Advanced Summer School on NLP (IASNLP-2022) held from 20th June to 8th July 2022.
- 1st National Symposium under the Quantum Enabled Science and Technology (QuEST-2022) program initiated by DST held from 11th to 13th April 2022 for which the participants from various parts of India attended physically.
- 27th International Conference on Database Systems for Advanced Applications (DASFAA-2022) held online mode from 11th to 14th April 2022.
- 21st International Conference on Autonomous Agents and Multiagent Systems (AAMAS’22) held from 9th to 13th May, 2022.
- IndicWiki project of the IIT-Hyderabad has organized a Wikimedia Technology Summit 2021 on 19th and 20th November 2021.
- National Quantum Science and Technology Symposium (NQSTS-2021) was organized on Virtual mode from 26th July to 3rd August 2021.
- 22nd International Annual Meeting of the Association of Internet Researchers (AoIR), Interfacing, Interacting, Intemitting In Pandemic Times (Virtual) co-hosted by Dr. Nimmi Rangaswamy on 4th October 2021. 10
- Design Thinking and collaborative problem-solving workshop with a specific focus on Software Products were organized by Dr. Raghu Reddy, Software Engineering Research Centre (SERC) on 9th October 2021.
- Prof. Jan Halborg Jensen, Department of Chemistry, University of Copenhagen, Denmark gave a talk under ML4Science Research Café series of IIT-Hub Data on 19th November 2021 under the Chemical Space Exploration series.

**CSR SCHOLARSHIPS TO SUPPORT NEEDY STUDENTS**

The institute opened a special channel for admission into its BTech program for rural and economically disadvantaged students in 2018. I am glad to announce that the first batch of these students are graduating today with jobs in global companies such as Ola, Jio InfoComm, Salesforce, Google, Walmart, MathWorks, Samsung, Qualcomm, Zomato, Cropin, etc.

I want to take this occasion to acknowledge the firm support of CGI Inc, a global company, for the students of the special channel we created. CGI is supporting the education of 30 students of this channel with a generous CSR grant of Rs. 3,87,30,00. Of these 30 students, 10 students are in the top 20% of the class – featuring in Deans Merit List 1, 2, 3 i.e., 1/3rd of the students are high academic achievers. I would like to recognize Mr. Nirbhay Lumde and Ms. Kavitha Natarajan personally present here, along with the entire CGI team for believing in IIT-H and these students. CGI is the reason we could launch and sustain this initiative. Subsequently, AT&T has given a financial support of about Rs. 1 crore for later batch of SPEC students as well 34 girl students of the diversity channel.

**The Centre for Innovation & Entrepreneurship (CIE)** was set up in 2008 and has since grown to be the largest academic incubator in the country. CIE is a technology incubator with rich experience in seedling, nurturing, and growing DeepTech startups in emerging segments like MedTech, Tech4Social, visual informatics, data engineering, Machine Learning, language technologies, gaming, robotics etc. CIE, with a research-led innovation as its primary mandate, focuses on amplifying technology through research collaboration and co-creation models for startups to work with research groups at IIT Hyderabad. Under the CIE umbrella, there are three active incubators: Deeptech Incubator, MedTech incubator (Ojas BioNEST) & the social incubator (AIC IIT-H). In the past 13 years, we have grown to be the largest academic incubator in the country, housed over 400+ startups that have raised about 200Cr funding, and created over 2000 jobs. It is organizing focused programmes on emerging technology startups, research based startups, medical technologies, and social technology startups, frequently.

**Programs & New Initiatives**
- In November 2021, CIE was awarded INR 3Cr by the Department for Promotion of Industry and Internal Trade (DPIIT) under Startup India Seed Fund Scheme to provide financial assistance to early-stage technology startups.
• CIE along with Arka Media Works, the new age production house which produced movies like Bahubali has launched the AI in Media-Tech Accelerator. The accelerator is also supported by the Department of Science and Technology (DST) under NIDHI Accelerator Scheme.

• In the past year, 3 cohorts of Avishkar DeepTech accelerator and two cohorts of Ojas Medtech accelerator were successfully run 10 startups facilitated with funding and three streams of mentorship. 11

• CIE has launched Mentor Cafe, a one-of-a-kind event wherein many startups get to meet many mentors in a single sitting. The program connects about 15 startups with 15 mentors every month. Match-ups with mentors will help them solve a short-term or long-term problem aligned with their problem statement.

Investments & Grants
• NIDHI Entrepreneur in Residence (EIR) is a co-creation model to enable entrepreneurs to leverage research output from IIIT-H labs leading to Deeptech startups with social or commercial applications. It has boarded 25 startups to date.

• CIE has launched a pre-acceleration program, ZeroTo1 in collaboration with IHub Data, with funding of INR 10L.

• Under Mel4Y TIDE 2.0 scheme, CIE supported three startups with INR 7L funding.

• Demo Day 2021 – CIE organized the January edition of demo day with 14 promising startups pitching to over 30+ investors from various Venture Capital and Angel firms.

Corporate programs
• Optum Global Solutions (India) Private Limited, part of Optum and United Health Group (a Fortune 5 company), announced the launch of ‘Optum Startup Studio’ in India, in partnership with IIITH, with the aim of fostering innovative ideas and startups to solve healthcare’s toughest problems to accelerate value delivery. A call for applications for Cohort 1 was announced.

• In collaboration with IIIT Hyderabad, Pactera EDGE, an AI and digital technology company based in Redmond, USA, has launched the "AI Innovation Challenge". Early-stage startups with technologies that can address problems in the retail and manufacturing sectors may apply. Specifically leveraging Computer Vision for Human Activity Detection, Visual Inspection in manufacturing.

• Pernod Ricard India Foundation (PRIF) is a non-profit subsidiary of Pernod Ricard India (P) Ltd. (PRIPL) and has collaborated with CIE-IIIT-H through its CSR initiative support. Over a year, 5 startups have been funded with over 1 crore. It aims to provide a platform for Women Entrepreneurs and Women-led Social Enterprises with access to mentorship, business development support, and technology etc.

• ZF India, a technology company supplying systems to automobiles, has signed an MoU with IIIT Hyderabad for collaboration in research projects. The MoU opens the possibility of a co-development research model for ZF in India and the IIIT-H.

• The Demo day of January 2022 featured promising startups from Avishkar (DeepTech Accelerator), Ojas (MedTech accelerator), and other micro-accelerators at the incubator with 39 investors across India.

Atal Incubation Center (AIC) at IIIT Hyderabad Foundation is supported by Atal Innovation Mission, NITI Aayog to nurture Tech-based social enterprises and help India achieve Sustainable Development Goals (SDGs). From April 2021 to May 2022, AIC-IIIT-H conducted 22 startup-related events including seven training boot camps for startups.

• AIC has signed MoUs with 5 partners and 10 mentors in order to provide expert mentorship.

• AIC has built partnerships with corporates to support startups. Through partnerships with HDFC Bank and EPAM Systems, AIC has facilitated financial support of nearly 55 lakhs to 7 startups.

• AIC-supported startups have generated over INR 70+Cr funding and generated nearly 300 jobs, so far.

Technology Transfer Office (TTO) is constantly evaluating technologies with market potential licensees of the deep tech work done in our research centres. Bringing new technology,
innovation, or processes to the industry and nurturing them into societal or commercially marketable technology has always been an end goal for IIT Hyderabad. The Institute has 9 granted patents, and 29 published patents, so far. During the last year, 8 have been filed and another 20 are in the process of filing.

Patents & Recognitions
- Dr. Raghur Reddy (SERC) and his students Neeraj Mathur and Sai Anirudh Karrre were granted a U.S patent for their research work on a system and method for evaluating and facilitating customized guidelines using usability code pattern analysis.
- Indian patent granted to Dr. Abhishek Srivastava (CEST), and his collaborators Dr. Devashi Das; IIT Ropar, Dr. M Shoshan Baghini, IIT Bombay for their research work on SAW Resonator Oscillator Based Injection Locked OOK Transmitter.
- Centre for Innovation & Entrepreneurship (CIE) incubated start-up recently bagged a coveted Design Award at the Vision Systems 2021 Innovation Awards for its patented omnidirectional 3D Vision Systems.
- Neural Sync AI's Affordable Lip-sync Tech- A deep Tech AI web app built by two Ph.D scholars of the Centre for Visual Information Technology (CVIT) is all set to disrupt the art of video-editing and dubbing. The patented software from the newly launched start-up can morph authentic-looking speeches with a single video clip of a human or digital avatar, in a matter of minutes, in the language of your choice.

Product Labs has enabled nearly 8 crore revenue to the institute through various projects in the past 18 months, which is taking Product Labs towards a self-sustenance path. During the R&D Showcase of this year, 52 patent-holders tied up with 23 Research Centers were honored for their synergistic efforts. TTO in association with the Internal Quality Assurance Cell (IQAC) of IIT Hyderabad has organised an IP awareness session on 8th September 2021 for the benefit of faculty and the students.

Our Internal Quality Assurance Cell (IQAC) established in 2016 is actively monitoring academic performance and administrative functioning at regular intervals. The Statistical Cell, which is coordinating with our regulatory and statutory bodies viz., MoE (MHRD), UGC, AICTE, AIU, NBA, and NAAC to adapt their Innovative programs, policy matters, and best practices on the campus. It also promotes the institute branding by participating in various International and National Rankings viz., QS, THE, NIRF, ARIIA, and private rankings such as DataQuest, India Today, The Week, Outlook and Education World etc.

IHub-Data Technology Innovation Hub
IIT-H IHub Data Foundation (IHub-Data) is a Section 8 corporation, focusing on Data Banks, Data Services, and Data Analytics. Its major objective is to coordinate, integrate, amplify, and further research in the above-mentioned areas under the National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS) scheme. IHub-Data wishes to achieve its targets and objectives through four dimensions - Technology Development, Human Resource & Skill Development, Innovation & Entrepreneurship, and startup ecosystems. IHub-Data fellowships were awarded to 20 research students between January 2021 – July 2022 for their potential to contribute to the mission of the center through their research objectives and projects in the focus areas of Mobility, Healthcare, Buildings, Systems, India Specific Research etc.

Collaborations
Currently, IHub-Data is collaborating with International Organizations such as ThermoFisher, Insilico Medicine and Bioron Foundation etc. At national level, they are working with Apollo Hospitals, Grace Cancer Foundation, NMICPS, Nizams Institute of Medical Science (NIMS), Rajiv Gandhi University of Knowledge Technologies (RGUKTs), CSIR India, IIGB, WiB Foundation, CPathlabs, DST, NTPC, Paras Defence, Government of Goa and, Government of Telangana. Since its inception, research fellows of the centre have published a total of 54 research articles in the domains of both Mobility and Healthcare. IHub-Data in collaboration with CIE is running four programs to identify, train and nurture startups to scale beyond. The programs are
• Grant challenge is a three-month program for startups seeded from research and leveraging emerging technologies. The startups with a validated proof of concept can build an MVP through the grant.
• Root Node is a three-month research advisory program for technology review, idea validation, and approach and product development with guidance from renowned research faculties at IIT-Hyderabad and Research Labs to foster novel ideas.
• ZeroTo1 lab is a unique and accessible program for three months, where startups will be given the necessary mentoring/resources to get their first customer and first fund. It prepares start-ups for the scope of scaling beyond. • EIR (Entrepreneurship in Residence) is a six-month entrepreneurship development program under which the selected individuals undergo a variety of programs, which are designed to scale beyond.

**Human Resource & Skill Development**
- iHub-Data organized a Summer school in AI, Foundations of modern machine learning, Machine Learning for chemistry and drug design, Divyang Warriors training etc.
- iHub-Data supports students’ research in a big way ushering them with sponsors and fellowships at various levels. A total of 91 fellowships for graduates and 41 post graduate fellowships have been awarded.
- At the Doctoral level a total of nine fellowships are awarded and at the Postdoctoral level, a total of 12 fellowships were awarded. While one faculty fellowship was awarded.

iHub-Data has organized numerous programs focusing on different areas. Some of them are:
- International Day for Women in Science and Technology
- International Data Privacy Day • Autonomous Navigation in Unconstrained Environments
- A Mini-Symposium to facilitate paper presentations from the first and second batches of research scholars for iHub-Data Fellows
- Panel Discussion – Data-Driven Drug Discovery- Distraction or Disruption
- Deep Learning Application for ECG/EEG
- Lecture on Machine Learning for science
- Awareness session on Cervical Cancer

### STUDENT ACTIVITIES

For the 2022-23 session, a new student parliament body was elected. The Student Parliament is a self-less student body that strives to resolve issues faced by the students in the institute and make the IIITH community stronger, safer, and better. The previous term had been one of the toughest terms the student parliament has seen in recent years. Although more than half of the past academic year was in hybrid mode in view of the 3rd wave, our students have managed to take time out of their intense academic and research schedules to organize various activities that showed their leadership qualities, creativity, and caring nature. They organized several technical, cultural, social, and sports programs, and celebrated national festivals such as Independence Day, Republic Day, Gandhi Jayanthi Celebrations etc. Our students have formed more than 20 clubs and have organized about 300 events and activities, including a few national and international ones. The events ranged from activities related to debates, quizzes, photography, music, dance, art, literature, Ping newsletter, gaming, hacking, e-Cell, electronics, and astronomy to seminars and talks. In March 2022, the 22nd edition of Felicity, the students’ annual mega techno-cultural fest, has been organized in physical mode after a small break from being online in 2021. It was a huge success with a large turnout that included new alumni students as well.

There were many talks, workshops, and programs in diverse fields. To enlist a few: a series of Art and Wellbeing sessions, World Science Day for Peace and Development, Clothes donation drive, Webinar on the Awareness of Lung Cancer, International Mother Language Day Celebrations, Special Webinar Yogic Management of Hormonal Problems for Women on International Women’s Day, Mental Health Workshop, Talks on Gender Sensitization, etc. As usually done every year, a flagship Classical Music Concert was organized and this year it was by Prof. Subhendu Ghosh.

Our students were also engaged in various social activities like spreading awareness during Covid-19 pandemic through posters, organizing cloth collection drives, green challenge initiatives, webinars on Hope for Farm Animals, Vijay Diwas, Doctor’s Day, World Environment Day etc.
Physical Education Center (PEC) took many initiatives to keep the campus community physically and psychologically fit. It encouraged participation by Campus Community with the introduction of Monsoon Sports and organized several events. This is in addition to the regular Academic Credit Courses such as International Bicycle Day which was celebrated with large participation from the Campus Community. PEC also encouraged students in participating Inter-college competitions for Football, Basketball, Volleyball, and Cricket. Many Yoga activities have been organized to keep the campus community in good health. To name a few, Yoga Mahothsav Month during Jun-2022 with a series of events on weekends in addition to 2 flagship sessions on International Yoga Day Celebrations with the theme Yoga for Wellbeing. Some of the events organized as part of Yoga Mahothsav are Tratak Kriya (Eye exercise), Kapola Shakti Vikasam (Face Yoga), Yogic Remedies for Insomnia (Sleeping Disorder), and concluded the Mahothsav with a session on Yoga Nidra.

New Infrastructure & Facilities
- Student Workspaces Students now have new workspaces on campus. The student workspaces are set up as a facility where any student can come and work in a quiet space. These spaces are designed and built recently in 2022 with modern facilities such as ergonomic chairs and desks, discussion rooms, whiteboards, and the like. Put together, these facilities can accommodate 200 students at any given time. The space is designed with good ventilation and fire escape doors and fire extinguishers as per safety standards.
- Open Air Gymnasium An additional infrastructure in the form of an Open-air Gym has been added to the existing Sports facilities which have received a good response from the Campus Community.
- New Placement Office The new Placement Office at Nilgiri was inaugurated on October 12th to enhance the experience of the companies visiting to recruit the students of the institute.
- New Library space The current library space is extended with a new reading room, stock area, sufficient IT infrastructure, furniture etc. Overall, the student life activities were not affected by the pandemic or online platform. And once again it is proved that students bring life to any institute.

Overall, the student life activities were not affected by the pandemic or online platform. And once again it is proved that students bring life to any institute.

The alumni have contributed a total of Rs. 2.1 crores as of date, towards a scholarship program for needy students. Last year, Rs. 51 lakhs alone were added to the fund and 56 students are supported with financial assistance and 29 student beneficiaries returned the favor by sponsoring another bunch of deserving students. Currently, 8 students are being supported by the Alumni Fund. The alumni helped to raise over 30 lakhs towards the medical expenses of one of our students (TH Arjun, a dual-degree CSE student) during the pandemic. The virtual Alumni Meet held on 12th December 2021, drew a big alumni crowd from across the globe. We have showcased the experiences of 8 alumni through our blogs, Alumni Speak Series, Alumni Startup Showcase etc. Our alumni were also featured as speakers on our Foundation Day (2nd September) and FC Kohli Day Celebrations (19th March).

A few alumni achievements
- Ishan Misra from Meta-FAIR is in the MIT Tech Review 35 under 35 list under the AI & Robots category. Ishan entered IIT-H in 2008 as a B Tech student in CSE and worked in CVIT, then at CMU and is now in FAIR.
- Tarun Nayak, B.Tech-2006 batch at IIT Hyderabad an IPS officer in Madhya Pradesh was awarded the Police Gallantry Medal, recently. Tarun was at IIT-H from 2002 – 2006 and was inducted into IPS in the year 2009. Tarun, a diligent officer with a great passion for his work, is currently commandant of Hawk Force Police Head Quarters (PHQ), Bhopal. He was earlier SP in Ashok Nagar district, Neemuch, Seoni, and Sidhi and Commandant in Special Armed Force Battalion in Indore and Mandla.
- Ms. Garima Agarwal (B.Tech and MS by Research – batch of 2015) Additional Collector, Karimnagar along with Collector Mr. RV Karnam launched the first-of-its kind Vaaradhi App (Bridge in English) which will be a boon for unemployed youth 16 and aspirants of competitive exams. This is going to be a game-changer for Telangana government job aspirants preparing for around 1.00 Lakh jobs announced recently.
• Practical Natural Language Processing - a book co-authored by 3 IIIT-H alumni, has caught the eye of the global AI community, snagging a place in the top 1% of all general and technical books sold on Amazon. Anuj Gupta, Harshit Surana, and Sowmya Vajjala shared the backstory on how their book was published by industry giant O’Reilly Media, a rare feat for an all-Indian team of writers.

• BlueSemi, a CIE-incubated startup founded by IIIT-H alumnus Sunil Kumar Maddikatla has received impressive funding of US$69 million from Luxembourg based investment group GEM Global Yield LLC. The infusion is set to fuel the growth of its soon-to-be-launched disruptive health tech product that is inspired by ikigai.

GRADUATING STUDENTS

This year, the graduating batch size is 556 in number (Dual Degree – 100; B.Tech Honours – 83; B.Tech – 72; MS by Research – 33; M.Tech -136; Ph.D. – 22 and MSIT – 110). This is the largest graduating class in the institute’s history. The Covid-19 pandemic did not affect the placements. A total number of 151 companies registered for conducting placements; 78 companies have conducted online recruitment and, 57 companies have made job offers to these graduating students.

SUMMARY

I welcome the new graduates of IIIT Hyderabad to the fold of the most powerful club in the world, namely, that of the alumni of the institute. The alumni numbers will cross 6000 very soon. You bear a great responsibility towards the world as competent, creative and above all caring individuals who make the world around you better each day. There is ample opportunity to apply the skills and above all the worldview you gained at the institute to your professional careers, your personal life, as well as to the society around you. We expect nothing less than the very best from you and are confident you will live up to your potentials. The institute will be with you in every step of yours as it has been our privilege to be a part of a critical stage of your lives. I urge you to stay connected with the institute and help in its journey towards becoming a top academic institution in the world. We will soon enter the 25th year of the institute which gives additional opportunities to connect with the global alumni. Great academic institutions are fundamentally defined and owned by their alumni. I urge you all to move forward with confidence and conviction in your life’s journey while keeping IIIT Hyderabad in your hearts.

Thank you.

Prof. P. J. Narayanan
Director, IIIT Hyderabad
director@iiit.ac.in
CONSORTIUM PROJECTS

CVIT

OCRrs and Applications in Indian Languages
IIITH consortium Leader and IIT Delhi, IIT Bombay, IIT Jodhpur, Punjabi University, Patiala & CDAC Noida (Consortium Members)
- Ministry of Electronics and Information Technology

Speech technologies in Indian languages
IIT Madras as Consortium Leader and IIIT Hyderabad, IIT Kanpur, IIT Hyderabad, IISc Bangalore, NITK Surathkal, CDAC Mumbai, IIT Dhanbad, NIT Goa, IIT Mandi, IIT Guwahati, CDAC Kolkata, NIT Manipur, IIT SrI City, SNU Chennai, IIT Kharagpur, DA IICT Gandhinagar, SSNCE Chennai, KLEF Vaddeswaram (Consortium Members)
- Ministry of Electronics and Information Technology

Jawahar C V

OCRrs and Applications in Indian Languages
IIITH consortium Leader and IIT Delhi, IIT Bombay, IIT Jodhpur, Punjabi University, Patiala & CDAC Noida (Consortium Members)
- Ministry of Electronics and Information Technology

Ravi Kiran Sarvadevabhatta

LITRC

Indian Language to Indian Language Machine Translation
IIITH Consortium Leader and Members: Punjabi University, University of Hyderabad, Manipal Institute of Technology, CDAC Bangalore, IIIT Bhubaneswar, CDAC Noida, Govt. College for Women Jammu, University of Kashmir, DA IICT, IIT Patna & IIIT Hyderabad
- Ministry of Electronics and Information Technology

Dipti Misra Sharma

Language Communicator Tool for End Users
IIT (BHU), Varanasi as Consortium Leader and Members: IIIT Hyderabad, AUKBC, Anna University, Chennai
- Ministry of Electronics and Information Technology

ISHAAN: A System for Bidirectional Machine Translation Between 1) English and Assamese, Bodo, Manipuri, Nepali 2) Manipuri and Hindi 3) Assamese and Bodo
IIT Bombay as Consortium Leader and Members: Gauhati University, IIIT Hyderabad, IIIT Manipur, NIT Sikkim, University of North Bengal
- Ministry of Electronics and Information Technology

Soma Paul

English to Indian Language [Hindi, Marathi, Gujarati, Odia, Kannada & Malayalam] and vice versa Machine Translation System
C-DAC Pune as Consortium Leader and Members: C-DAC Noida, IIT Bombay, IIIT Hyderabad, AU-KBC Chennai, Banasthali Vidyapith Rajasthan, C-DAC Bangalore, C-DAC Trivandrum, Dharm Singh Desai University, IIT Bhubaneswar
- Ministry of Electronics and Information Technology

Manish Srivastava

Discourse Integrated Dravidian Language to Dravidian Language Machine Translation (DL-DiscOMT)
AU-KBC as Consortium Leader and Members: IIIT Hyderabad, Central University of Hyderabad, ICFoss Trivandrum, MIT Manipal, C-DAC Noida, DA IICT Gandhinagar
- Ministry of Electronics and Information Technology

Dipti Misra Sharma
JOINT COLLABORATION PROJECTS

CSG
Secure Drones: Analyze, Deploy and Decide Cryptographic modules in UAVs
Funding Agency: I HUB NTIHAC Foundation, IIT Kanpur
Design, development, and deployment of energy-efficient smart EDGE devices for real-time traffic flow prediction and control
Funding Agency: NMICPS, IIT Hyderabad

- Deepak Gangadharan, jointly collaborated with IIT Sri City

CSTAR
Design and Implementation of Authentication and Searchable Encryption for Blockchain-based Fintech applications
Funding Agency: IIT Bhilai, Innovation & Technology Foundation (IBITF)

- Ashok Kumar Das

Blockchain and Machine learning Powered unified Video Know Your Customer (KYC) Framework
Funding Agency: Ministry of Electronics and Information Technology (MeitY)

- Ankit Gangwal jointly collaborated with IDRBT, IIT Bhilai

RRC
Embedded system based fault tolerant control and autonomous navigation of an unmanned aerial vehicle (UAV)
Funding Agency: TIHAN, IIT Hyderabad
Harikumar K jointly collaborated with IIT Delhi

INDIVIDUAL RESEARCH PROJECTS

C2S2-Precog
Building Algorithms & Technologies to analyze Factly data
Funding Agency: Factly Media & Research

- Ponnurangam Kumaraguru

CBS
Wireless switching for switch-less buildings
Funding Agency: TCS-Foundation

- Vishal Garg

CCNSB
Development of Modern Machine Learning Based Generative Algorithms for Inverse Design of Molecules
Funding Agency: SERB

- Deva Priyakumar U

INSPIRE Faculty Fellowship and Research Grant
Funding Agency: Inspire Grant

- Diganta Das

AI/ML Enabled Pipeline for Acceleration of Disease Diagnostics and Drug Discovery Process (Phase I: Intelligent System for Drug-Drug Interaction Prediction)

Confluence of deep learning and Physics based methods for Anti-Cancer Drug Design
Funding Agency: TCS-Foundation

- Deva Priyakumar U
CEH
Development of a web portal for Information Dissemination to Assam tea garden workers and stakeholders of Assam Tea Industry
Funding Agency: Oxfam India - Aniket Alam

Planning for a just coal energy transition from the ground up: Engaging coal field communities in India for fossil free future
Funding Agency: The Swedish University of Agricultural Science, Sweden - Radhika Krishnan

CSTAR
Image Analysis and AI Development costs
Funding Agency: University of Leicester - Girish Varma

Preconditioned Quasi-Newton Methods for Large Scale Optimization in Deep Learning
Funding Agency: Microsoft Research Lab India (P) Ltd. - Pawan Kumar

CVEST
Single Photon Avalanche Diodes and Active Quenching Circuits
Funding Agency: Mishran Semi-Conductor (P) Ltd. - Syed Azeemuddin

Low-Phase-Noise Fully Monolithic mm Wave Oscillators
Funding Agency: SERB - Abhishek Srivastava

Design and tape-out of a Wide-Range Light Energy Harvester and other low-power analog macros (RDC, Oscillators, References)
Funding Agency: University of Pittsburgh - Zia Abbas

Design and Development of Quantum Random Number Generator
Funding Agency: AMPICQ (P) Ltd. - Syed Azeemuddin

Towards Bird-like Drones using Polymer-based Artificial Muscles
Funding Agency: TCS-Foundation - Aftab Hussain

Mission Parikshit
Funding Agency: TCS-Foundation - Abhishek Srivastava

Artificial/Machine Intelligence incorporated biosensor based a novel in-house prototype design for protein/nanoparticles detection targeting health-care applications
Funding Agency: TCS-Foundation - Zia Abbas

AI incorporated bio-sensor based novel prototype design
Funding Agency: TCS-Foundation - Zia Abbas

Mission Parikshit - Phase 2
Funding Agency: TCS-Foundation - Abhishek Srivastava

CVIT
Casual Social Games: A multi-modal testbed for benchmarking new AI frontiers via embodied agents
Funding Agency: TCS-Foundation - Ravi Kiran Sarvadevabhatla
DSAC
Applied Semantics Extraction and Analytics over Banking Documents
Funding Agency: JP Morgan
- Kamalakar Karlapalem

Crop Darpan System Development Phase II
Funding Agency: The University of Tokyo
- Krishna Reddy Polepalli

EERC
Seismic Retrofitting for Historic and Contemporary Masonry Buildings using Textile Reinforced Mortar Composites: An Alternate to FRP
Funding Agency: Science and Engineering Research Board (SERB), DST
- P Pravin Kumar Venkat Rao

INAIR
Artificial Intelligence (AI) for Road Safety in Telangana
Funding Agency: Intel Technology India Pvt. Ltd.
- Kona Ila Varma

LSI
Agri Monitored Reengineering and Transformation
Funding Agency: ICRISAT, Hyderabad
- Rajan Krishnan Sundar

DST-NGP 2nd Phase of National Geospatial Chair Professor (GCP) position of Nagaraja Ravoori

Project Management Unit (PMU) for Successful Organization of 2nd UNWGC at Hyderabad-2022
Funding Agency: DST
- Nagaraja Ravoori

LTRC
Touchstone
Funding Agency: TCS-Foundation
- Radhika Mamidi

AI-charya: An Intelligent, Interactive, Multilingual & Personal Tutor
Funding Agency: TCS-Foundation
- Manish Shrivastava

RRC
Drone-based Aerial Manipulation with Human-in-the-Loop
Funding Agency: i-Hub foundation for COBOTICS (Technology Innovation Hub, IIT Delhi)
- Spandan Roy

Setup and Exploration of Relation between the Behavioral Planner and Motion Planner for an Autonomous Vehicle in Dynamic Environments
Funding Agency: Defence Research and Development Organisation, DRDO
- K Madhava Krishna

RoboMate: Towards 24/7 Companionship and Assistance
Funding Agency: TCS-Foundation
- Nagamanikandan Govindan

SERC
Remote Triggered Labs
Funding Agency: TCS-Foundation
- Venkatesh Choppella

Towards Contactless Healthcare using VR
Funding Agency: TCS-Foundation
- Y Raghu Reddy
FACULTY RESEARCH GRANT AWARDS/UNRESTRICTED GRANTS

C2S2

Fraud Detection
Funding Agency: Flipkart Internet (P) Ltd.

Unrestricted gift
Funding Agency: Supported by an Individual

- Ponnurangam Kumaraguru

CSTAR

Awarded prize money by Qualcomm Technologies, INC
Funding Agency: Qualcomm

- Pawan Kumar

CVIT

Unrestricted gift - Work related to multi-object multi-part segmentation and visual scene understanding
Funding Agency: Google Asia Pacific Pte Ltd

Qualcomm Innovation Fellowship- India/2021/Deep Neural Models For Generalized Synthesis of Multi-avatar Actions
Funding Agency: Qualcomm Technologies, Inc.

- Ravi Kiran Sarvadevabhatla

LTRC

2022 Verisk Faculty Awards
Funding Agency: Verisk Analytics India Pvt. Ltd.

- Manish Srivastava

RRC

Awarded prize money by Mahindra & Mahindra through MathWorks India Private Limited
Funding Agency: MathWorks India Private Limited

- Madhava Krishna

RRC & CVIT

Qualcomm Innovation Fellowship – India/2021/Language-Based Navigation with Object Referenced Spatiotemporal Constraints in Autonomous Driving
Funding Agency: Qualcomm Technologies, Inc.

- Madhava Krishna and Vineet Gandhi

C2S2

ESTABLISHMENT OF NEW RESEARCH CENTRE

A new research centre is established as C2S2 under the headship of Prof Ponnurangam. It pursues inter-disciplinary research at the intersection of Computer Science and Social Science. It wishes to solve real-world problems and create a positive impact in the community through integration of various fields. It also seeks to spread awareness about CSS research in India. Under C2S2, a Precog Research Lab is formed with activities include a group of researchers who study, analyze, and build different aspects of social systems (e.g. social web systems like Twitter, Facebook), including their security and privacy. By understanding and measuring complex networks, we try and build solutions for social good. Our work primarily derives from Data Science, Computational Social Science, Social Computing, Machine Learning, and Natural Language Processing.

- Headed by Prof. Ponnurangam Kumaraguru
### RESEARCH AREAS

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution/University/Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABHISHEK DESHPANDE</td>
<td>Assistant Professor, Ph.D (Imperial College London), Dynamical systems, mathematical biology (CCNSB)</td>
</tr>
<tr>
<td>ABHISHEK SRIVASTAVA</td>
<td>Assistant Professor, Ph.D (IIT Bombay), RF/analog integrated circuits and systems for wireless sensor nodes, mmWave-5G, healthcare, wearable/implantable devices, and quantum sensing applications (CEVES)</td>
</tr>
<tr>
<td>ADITI MUKHERJEE</td>
<td>Visiting Faculty, Ph.D (Delhi University), Sociolinguistics, literacy studies (LTRC)</td>
</tr>
<tr>
<td>AFTAB M HUSSAIN</td>
<td>Assistant Professor, Ph.D (KAUST, Saudi Arabia), Flexible and stretchable electronics, IoT devices, smart city research, LoRaWAN devices (CEVES)</td>
</tr>
<tr>
<td>ANIKET ALAM</td>
<td>Associate Professor, Ph.D (JNU, New Delhi), Western Himalayas and mountain societies; history of state and its institutions; historical methods; geography and history (HSRG)</td>
</tr>
<tr>
<td>ANIL KUMAR VUPPALA</td>
<td>Associate Professor, Ph.D (IIT Kharagpur), Speech recognition, speaker recognition, language identification, speech processing in emotion conditions, pathological speech processing and speech to speech machine translation (LTRC, SPCRC)</td>
</tr>
<tr>
<td>ANKIT GANGWAL</td>
<td>Assistant Professor, Ph.D (University of Padua, Italy), Blockchain, cryptography, privacy, and security (CSTAR)</td>
</tr>
<tr>
<td>ANOOP M NAMBOODIRI</td>
<td>Associate Professor, Ph.D (Michigan State University), Pattern recognition, machine learning, computer vision, biometrics (CVIT)</td>
</tr>
<tr>
<td>Name</td>
<td>Position and Affiliation</td>
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<tr>
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</tr>
<tr>
<td>ANSHU SARJE</td>
<td>Assistant Professor, Ph.D (University of Maryland), VLSI (sub category: CMOS sensing, electronic noise, biomedical instrumentation, analog CMOS circuit design, device fabrication, semiconductor, reliability, bioMEMs, lab-on-a-chip devices (CVESt))</td>
</tr>
<tr>
<td>ARTI YARDI</td>
<td>DST-INSPIRE Faculty Fellow, Ph.D (IIT Bombay)</td>
</tr>
<tr>
<td>ASHOK KUMAR DAS</td>
<td>Associate Professor, Ph.D (IIT Kharagpur)</td>
</tr>
<tr>
<td>ASHWIN JAYANTI</td>
<td>Assistant Professor, Ph.D (JNU, New Delhi)</td>
</tr>
<tr>
<td>AVINASH SHARMA</td>
<td>Assistant Professor, Ph.D (INRIA Rhone-Alpes)</td>
</tr>
<tr>
<td>BAPI RAJU S</td>
<td>Professor, Ph.D (University of Texas, Arlington)</td>
</tr>
<tr>
<td>BHAKTEE DONGAONKAR</td>
<td>Assistant Professor, Ph.D (University of Arizona), Stress, depression, ageing, cognitive impairment, memory, decision making, creativity (CogSci)</td>
</tr>
<tr>
<td>BHASKAR GHOSH</td>
<td>DBT- Ramalingaswamy Re-entry Fellow, Ph.D (Bose Institute, Kolkata), Systems biology, biophysics, bioinformatics (CCNSB)</td>
</tr>
<tr>
<td>CHARU SHARMA</td>
<td>Assistant Professor, Ph.D (IIT Hyderabad)</td>
</tr>
<tr>
<td>CHIRANJEEVI YARRA</td>
<td>Assistant Professor, Ph.D (IISc Bangalore)</td>
</tr>
<tr>
<td>CHITTARANJAN HENS</td>
<td>Assistant Professor-Inspire, Ph.D (CSIR-Indian Institute of Chemical Biology), Network science, nonlinear dynamics, and statistical physics, focus area: epidemics spreading, and epileptic seizure propagation in the human brain (CCNSB)</td>
</tr>
<tr>
<td>DEEPAK GANGADHARAN</td>
<td>Assistant Professor, Ph.D (National University of Singapore), Scalable design and performance analysis of edge-based IoT systems, analysis and scheduling of real-time distributed systems/cyber-physical systems, hardware/software co-design, fault tolerant system design (CSG)</td>
</tr>
<tr>
<td>Name</td>
<td>Title/Position</td>
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</tr>
<tr>
<td>DEVA PRIYAKUMAR U</td>
<td>Professor, Ph.D (Pondicherry University) Computational chemistry to study chemical molecules and reaction mechanisms, biomolecular simulations to investigate DNA, RNA, proteins and protein interactions and computer aided drug design (CCNSB)</td>
</tr>
<tr>
<td>DIGANTA DAS</td>
<td>Assistant Professor (Inspire), Ph.D (Institute of Mathematical Sciences, Chennai) Theoretical high energy physics, particle physics phenomenology, astroparticle physics &amp; cosmology: quark and lepton flavor physics, new physics searches, dark matter (CCNSB)</td>
</tr>
<tr>
<td>DIPTI MISRA SHARMA</td>
<td>Professor Emeritus (Delhi University) Machine translation, linguistics (LTRC, COS)</td>
</tr>
<tr>
<td>GIRISH VARMA</td>
<td>Assistant Professor, Ph.D (TIFR Mumbai) Complexity theory, combinatorics, computer vision, machine learning (CSTAR, MLL)</td>
</tr>
<tr>
<td>HARIKUMAR KANDATH</td>
<td>Assistant Professor, Ph.D (IISc Bangalore) Aerial robotics, control and coordination of multi-robot systems, reinforcement learning, robust control and state estimation, evolving controllers (RRC)</td>
</tr>
<tr>
<td>HARJINDER SINGH</td>
<td>Professor, Ph.D (Princeton University) Theoretical, computational chemistry and biology, chemical dynamics electronic structure and properties calculations (CCNSB)</td>
</tr>
<tr>
<td>INDRANIL CHAKRABARTY</td>
<td>Associate Professor, Ph.D (Bengal Engineering and Science University), Quantum information (relativistic and non-relativistic), fisher information (CSTAR)</td>
</tr>
<tr>
<td>JAWAHAR C V</td>
<td>Professor, Dean RnD &amp; Amazon Chair Professor, Ph. D (IIT Kharagpur), Computer vision, machine learning, multimedia systems (CVII)</td>
</tr>
<tr>
<td>JAYANTHI SIVASWAMY</td>
<td>Professor, Ph.D (Syracuse University), Image processing, medical image analysis and biological vision (CVII, SPCRC and CITE)</td>
</tr>
<tr>
<td>K MADHAVA KRISHNA</td>
<td>Professor, Ph.D (IIT Kanpur) Mobile robotics, robotic vision, outdoor robotics, multi-robotic systems and mechanism design (RRC)</td>
</tr>
<tr>
<td>KAMALAKAR KARLAPALEM</td>
<td>Professor, Ph.D (Georgia Institute of Technology), Database system, data visualization, data analytics, multi agent systems, workflows and electronic contracts (DSAC)</td>
</tr>
<tr>
<td>KANNAN SRINATHAN</td>
<td>Assistant Professor, Ph.D (IIT Madras) Cryptography, security (CSTAR)</td>
</tr>
</tbody>
</table>
### RESEARCH AREAS

<table>
<thead>
<tr>
<th>Name</th>
<th>Position and Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>KAVITA VEMURI</td>
<td>Assistant Professor, Ph.D (IIIT Hyderabad)</td>
</tr>
<tr>
<td></td>
<td>Cognitive neuroscience of empathy, game design and engineering, innovation and entrepreneurship, fiber optic and liquid crystal devices for optical communications and sensors, control system (CIE, CogSci)</td>
</tr>
<tr>
<td>KISHORE KOTHAPALLI</td>
<td>Professor, Dean Academics, Ph.D (John Hopkins University), Multicore and many core algorithms, distributed algorithms (CSTAR)</td>
</tr>
<tr>
<td>KRISHNA REDDY P</td>
<td>Professor, Ph.D (JNU, New Delhi)</td>
</tr>
<tr>
<td></td>
<td>Data mining, data management, transaction models, distributed computing, performance evaluation, and information technology for agriculture (ITARD, DSAC)</td>
</tr>
<tr>
<td>LALITHA VADLAMANI</td>
<td>Assistant Professor, Ph.D (IISc Bangalore)</td>
</tr>
<tr>
<td></td>
<td>Coding theory, information theory, signal processing, distributed storage systems (SPCRC)</td>
</tr>
<tr>
<td>LINI TERESA THOMAS</td>
<td>Visiting Assistant professor, Ph.D (IIIT Hyderabad), Skylines, clustering, graph mining, medical document mining (DSAC)</td>
</tr>
<tr>
<td>MAKARAND TAPASWI</td>
<td>Assistant Professor, Ph.D (Karlsruhe Institute of Technology), Machine Learning, Computer Vision, Natural Language Processing (CVIT)</td>
</tr>
<tr>
<td>MANISH SHRIVASTAVA</td>
<td>Assistant Professor, Ph.D (IIT Bombay)</td>
</tr>
<tr>
<td></td>
<td>Natural language processing, machine learning, machine translation, NLP for Indian languages (LTRC)</td>
</tr>
<tr>
<td>MARIMUTHU KRISHNAN</td>
<td>Assistant Professor, Ph.D (JNCASR, Bangalore), Computational molecular biophysics, computer simulation of interfacial phenomena in nano-biomaterials, phase behaviour of polymer nanocomposites, computational physics of ion transport through nanopores and in polymer electrolytes (CCNSB)</td>
</tr>
<tr>
<td>NAGAMANIKANDAN GOVINDAN</td>
<td>Assistant Professor, Ph.D (IIIT Madras)</td>
</tr>
<tr>
<td></td>
<td>Robotics and control, mechanism design (multimodal grasper and robot design), mobile manipulation, variable stiffness mechanism (RRC)</td>
</tr>
<tr>
<td>NAGARAJA RAVOORI</td>
<td>Geospatial Chair Professor, Ph.D (Osmania University), Geospatial Technologies (LSI)</td>
</tr>
<tr>
<td>NARAYANAN P J</td>
<td>Professor &amp; Director, Ph.D (University of Maryland), Computer vision, graphics (CVIT)</td>
</tr>
<tr>
<td>NARESH MANWANI</td>
<td>Assistant Professor, Ph.D (IISc Bangalore)</td>
</tr>
<tr>
<td></td>
<td>Machine learning, data mining, deep learning, natural language processing (MLL)</td>
</tr>
<tr>
<td>Name</td>
<td>Academic Position</td>
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<tr>
<td>NAZIA AKHTAR</td>
<td>Assistant Professor, Ph.D</td>
</tr>
<tr>
<td>NIMMI RANGASWAMY</td>
<td>Research Professor, Ph.D</td>
</tr>
<tr>
<td>NITA PAREKH</td>
<td>Associate Professor, Ph.D</td>
</tr>
<tr>
<td>P PRAVIN KUMAR VENKAT RAO</td>
<td>Assistant Professor, Ph.D</td>
</tr>
<tr>
<td>PAWAN KUMAR</td>
<td>Assistant Professor, Ph.D</td>
</tr>
<tr>
<td>PONNURANGAM KUMARAGURU</td>
<td>Professor, Ph.D</td>
</tr>
<tr>
<td>PRABHAKAR BHIMALAPURAM</td>
<td>Assistant Professor, Ph.D</td>
</tr>
<tr>
<td>PRADEEP KUMAR RAMANCHARLA</td>
<td>Professor, Ph.D</td>
</tr>
<tr>
<td>PRAFUL MANKAR</td>
<td>Assistant Professor, Ph.D</td>
</tr>
<tr>
<td>PRASAD KRISHNAN</td>
<td>Assistant Professor, Ph.D</td>
</tr>
<tr>
<td>PRAVEEN PARUCHURI</td>
<td>Associate Professor, Ph.D</td>
</tr>
<tr>
<td>PRIYANKA SRIVASTAVA</td>
<td>Associate Professor, Ph.D</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADHIKA KRISHNAN</td>
<td>Assistant Professor, Ph.D (JNU, New Delhi) Technology studies, ecology, development and labour (HSRG)</td>
</tr>
<tr>
<td>RADHIKA MAMIDI</td>
<td>Associate Professor, Ph.D (University of Hyderabad), Computational morphology, machine translation, dialog systems, pragmatics, humour studies (LTRC)</td>
</tr>
<tr>
<td>RAGHU BABU REDDY Y</td>
<td>Associate Professor, Ph.D (Colorado State University), Software engineering, human computer interaction, knowledge engineering (SERC, CIE)</td>
</tr>
<tr>
<td>RAJAN K S</td>
<td>Professor &amp; Registrar, Ph.D (University of Tokyo), Application of GIS and remote sensing to sustainable environmental issues (LSI, EERC, COS)</td>
</tr>
<tr>
<td>RAJEEV SANGAL</td>
<td>Professor, Ph.D (University of Pennsylvania) Natural language processing, artificial intelligence, machine translation, speech processing (LTRC, HSRG)</td>
</tr>
<tr>
<td>RAMACHANDRA PRASAD P</td>
<td>Associate Professor, Ph.D (Osmania University) Application of geospatial tools in - forest ecosystem, island ecology, climate change, land use - land cover changes, integrated water resource management (IWRM) studies (EERC, LSI)</td>
</tr>
<tr>
<td>RAMESH LOGANATHAN</td>
<td>Professor of Practice, Co-innovations, ME (Anna University, Guindy), Software engineering, entrepreneurship, innovation (SERC, CIE)</td>
</tr>
<tr>
<td>RAVI KIRAN SARVAD DEVABHATLA</td>
<td>Assistant Professor, Ph.D (IISc Bangalore) Computer vision, machine learning, virtual reality, robotics, affective computing, document analysis, multimedia (CVII)</td>
</tr>
<tr>
<td>SACHIN CHAUDHARI</td>
<td>Associate Professor, Ph.D (Aalto University) Next-generation wireless communication systems: 5G and beyond, internet of things, cognitive radios (SPCRC)</td>
</tr>
<tr>
<td>Name</td>
<td>Position, Institution, Degree</td>
</tr>
<tr>
<td>-----------------------</td>
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</tr>
<tr>
<td>Samyadeb Bhattacharya</td>
<td>Assistant Professor, Ph.D (University of Calcutta), Open quantum dynamics and spin system, quantum thermodynamics (CSTAR)</td>
</tr>
<tr>
<td>Santosh Nannuru</td>
<td>Assistant Professor, INSPIRE, Ph.D (McGill University), Signal processing, target localization and tracking (SPCRC)</td>
</tr>
<tr>
<td>Sarma K R</td>
<td>Professor of Emeritus, Ph.D (Cornell University) Communication, instrumentation and displays (SPCRC)</td>
</tr>
<tr>
<td>Saroja T K</td>
<td>Lecturer, Ph.D (Sri Padmavathi Mahila Viswa Vidyalayam, Tirupathi), Indian classical music with focus on south Indian music (HSRG)</td>
</tr>
<tr>
<td>Semparithi A ravindan</td>
<td>Senior Systems Scientist, Ph.D (IIT Kanpur) Energy flow in molecules, structure and dynamics of molecular clusters (CCNSB)</td>
</tr>
<tr>
<td>Shaik Rehana</td>
<td>Assistant Professor, Ph.D (IISc Bangalore) Hydrologic impacts of climate change, statistical downscaling, uncertainty modeling, water quality management, reservoir operation, irrigation planning (LSI)</td>
</tr>
<tr>
<td>Shantanav Chakraborty</td>
<td>Assistant Professor, Ph.D (University of Lisbon), Quantum computing, quantum algorithms, quantum walks (CSTAR)</td>
</tr>
<tr>
<td>Shatrunjay Rawat</td>
<td>Systems Associate Professor, MS (BITS Pilani) Computer networks, information security, network forensics, e-governance, human values, Vedic darshan (philosophy) (CSTAR, COS)</td>
</tr>
<tr>
<td>Siddhartha Das</td>
<td>Assistant Professor, Ph.D (Louisiana State University), Quantum information Theory (CSTAR)</td>
</tr>
<tr>
<td>Spandan Roy</td>
<td>Assistant Professor, Ph.D (IIT Delhi) Adaptive-robust control, time-delayed control (with artificial delay), sliding mode control, control applications to robotics (RRC)</td>
</tr>
<tr>
<td>Subhadip Mitra</td>
<td>Assistant Professor, Ph.D (IIT Kanpur) High energy physics theory/phenomenology, cosmology (CCNSB)</td>
</tr>
<tr>
<td>Sudipta Banerjee</td>
<td>Assistant Professor, Ph.D (Michigan State University), Biometrics, digital image forensics, computer vision, cybersecurity (CVIT)</td>
</tr>
<tr>
<td>Sujit P Gujar</td>
<td>Assistant Professor, Ph.D (IISc Bangalore) Game theory, mechanism design, machine learning, and cryptography applied to modern web and AI applications (auctions, internet advertising, crowdsourcing, and multiagent systems) (DSAC)</td>
</tr>
<tr>
<td>Name</td>
<td>Title and Affiliation</td>
</tr>
<tr>
<td>---------------------</td>
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</tr>
<tr>
<td>SUNITHA PALISSEY</td>
<td>Assistant Professor, Ph.D (IIT Madras), Seismic design of buildings, seismic non-linear behaviour of buildings (EERC)</td>
</tr>
<tr>
<td>SURESH PURINI</td>
<td>Associate Professor, Ph.D (University of Maryland), Compilers, parallel and distributed systems, virtualization, cloud computing and complexity theory (CSG)</td>
</tr>
<tr>
<td>SURYAJITH CHILLARA</td>
<td>Assistant Professor, Ph.D (Chennai Mathematical Institute), Computational Complexity Theory, and Algorithmic Coding Theory (CSTAR)</td>
</tr>
<tr>
<td>SUSHMITA BANERJI</td>
<td>Assistant Professor, Ph.D (University of Iowa), Indian cinema, world cinema, literature film adaptations, world literature, film and literary theory, narrative theory and genre theory, culture studies, post-colonial theory, American cinema and pop culture (HSRG)</td>
</tr>
<tr>
<td>SYED AZEEMUDDIN</td>
<td>Associate Professor, Ph.D (Southern Illinois University, Carbondale), RFIC design integrated RF devices incorporated with patterned ferromagnetic materials, micro/nano electronics and integrated photonics, optical devices using ring lasers (CVEST, SPCRC)</td>
</tr>
<tr>
<td>TAPAN KUMAR SAU</td>
<td>Professor, Ph.D (IIT Kharagpur), Nanomaterials: developing inorganic nanomaterials with controlled properties for probing, sensing, imaging, and energy-related applications; exploring the nature of interactions between nanomaterials and their surroundings (CCNSB)</td>
</tr>
<tr>
<td>TEJAS BODAS</td>
<td>Assistant Professor, Ph.D (IIT Bombay), Stochastic modeling, queueing theory, pricing, game theory, mean field approximation, Markov decision processes, reinforcement learning and Bayesian optimization (CSG)</td>
</tr>
<tr>
<td>UBAIDULLA P</td>
<td>Assistant Professor, Ph.D (IISc Bangalore), Signal processing, wireless communication, robust and distributed algorithms for communication systems, convex optimisation (SPCRC)</td>
</tr>
<tr>
<td>VASUDEVAR VARMA</td>
<td>Professor, Ph.D (University of Hyderabad), Information retrieval, social media analysis, semantic search, cloud computing and software engineering (SERC, LTRC, CIE)</td>
</tr>
<tr>
<td>VENKATESH CHOPPELLA</td>
<td>Associate Professor, Ph.D (Indiana University), Programming languages, S/W architectures, formal methods, CS education (SERC, COS)</td>
</tr>
<tr>
<td>VEERA PRAKASH YALLA</td>
<td>Professor of Practice, B.Tech ECE (SVU College of Engineering, Tirupati), 20+ years of R&amp;D experience driving technology development and strategic growth for leading multi national startup, Indian and public sector organizations (ITD/CIE)</td>
</tr>
<tr>
<td>Name</td>
<td>Title and Affiliation</td>
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<tr>
<td>VENKATESHWARLU M</td>
<td>Professor Emeritus, Ph.D (University of Waterloo), Discrete systems, wave phenomena in solid media, finite element models, probability, statistics, stochastic processes in engineering (EERC, CBS, CETLS)</td>
</tr>
<tr>
<td>VIGNESH SIVARAMAN</td>
<td>Assistant Professor, Ph.D (National University of Singapore), Information-centric networks, Internet of Things, privacy (CSG)</td>
</tr>
<tr>
<td>VIKRAM PUDI</td>
<td>Professor, Ph.D (IISc Bangalore), Data mining, artificial intelligence, database systems (DSAC, COS)</td>
</tr>
<tr>
<td>VINEET GANDHI</td>
<td>Assistant Professor, Ph.D (INRIA), Computer vision and multimedia, human detection and tracking, computational photography and cinematography, depth reconstruction and applications (CVIT)</td>
</tr>
<tr>
<td>VINOD P K</td>
<td>Assistant Professor, Ph.D (IIT Bombay), Computational systems biology, non-linear dynamics, network biology, systems pharmacology (CCNSB)</td>
</tr>
<tr>
<td>VINOOP ALLURI</td>
<td>Assistant Professor, Ph.D (University of Jyväskylä), Cognitive science, neuroimaging, music information retrieval, music cognition, music therapy, cross-cultural studies, audio signal processing (CogSci)</td>
</tr>
<tr>
<td>VISHAL GARG</td>
<td>Professor, Ph.D (IIT Delhi) (on leave), Building Energy Informatics, Smart Homes, Cool Roofs, Sustainability in Built Environment (CBS, EERC)</td>
</tr>
<tr>
<td>VISHNU SREEKUMAR</td>
<td>Assistant Professor, Ph.D (Ohio State University, Columbus), Cognitive neuroscience, memory and learning, dynamical systems (CogSci)</td>
</tr>
<tr>
<td>VISWANATH K</td>
<td>Research Professor, Ph.D (ISI Calcutta), Mathematical computer science, pedagogical issues (SERC)</td>
</tr>
<tr>
<td>YEGNANARAYANA B</td>
<td>Honorary Emeritus Professor, Ph.D (IISc Bangalore), Digital signal processing, speech, computer vision and neural networks (LTRC)</td>
</tr>
<tr>
<td>ZIA ABBAS</td>
<td>Assistant Professor, Ph.D (Sapienza University of Rome), Low power VLSI design, statistical variations aware modelling and optimization of CMOS and FinFET circuits, high yield designs, reliability issues in nanoscale CMOS and FinFET circuit circuits, current mode circuits (CVEST)</td>
</tr>
<tr>
<td>LECTURERS</td>
<td>DISTINGUISHED FACULTY</td>
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<tr>
<td>JAYACHANDRAN S</td>
<td>ANANDAN P</td>
</tr>
<tr>
<td>The confluence of dance, temple architecture</td>
<td>Microsoft Research India</td>
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<tr>
<td>and temple rituals (HSRG)</td>
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<tr>
<td>PUJA CHAUHAN</td>
<td>ASHOK JHUNJHUNWALA</td>
</tr>
<tr>
<td>Hand embroidery, sewing, garment making</td>
<td>IIT Madras</td>
</tr>
<tr>
<td>and design (HSRG)</td>
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<tr>
<td>PRIYA PRITHIVIRAJ</td>
<td>NARENDRA AHUJA</td>
</tr>
<tr>
<td>English Language Teaching (HSRG)</td>
<td>Donald Biggar Willet Professor of Engineering, University</td>
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<tr>
<td></td>
<td>of Illinois</td>
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<tr>
<td>SHAJIL K G</td>
<td>RAMAMOORTHY M</td>
</tr>
<tr>
<td>Story of baked earth (art of terracotta)</td>
<td>IEEE Fellow, Former DG of EPRI &amp;</td>
</tr>
<tr>
<td>(HSRG)</td>
<td>Advisor, ERDA, Vadodara</td>
</tr>
<tr>
<td>SUNIL M LOHAR</td>
<td>SITARAM N</td>
</tr>
<tr>
<td>Folk art and aesthetic (HSRG)</td>
<td>Non-Executive Part-time Independent Director, Bharat</td>
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<td></td>
<td>Electronics Ltd</td>
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<td>VIDYASAGAR M</td>
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<tr>
<td></td>
<td>Executive Vice President, Advanced</td>
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<td>Technology Center, TCS</td>
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<td></td>
<td>VINEET CHAITANYA</td>
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<td></td>
<td>IIIT Hyderabad</td>
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# ADJUNCT FACULTY

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Research Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANIL K JAIN (VAJRA Adjunct Faculty)</td>
<td>University Distinguished Professor, Dept. of Computer Science &amp; Engineering, Michigan State University, USA</td>
<td>Pattern recognition, computer vision and biometric recognition</td>
</tr>
<tr>
<td>ARUN KUMAR PATI</td>
<td>Quantum Information and Computation (QIC) Group, Harish -Chandra Research Institute, Jhusi, Allahabad</td>
<td>Quantum computation, quantum information, and fundamental aspects of quantum theory</td>
</tr>
<tr>
<td>BHARAT RAM AMBATI</td>
<td>Ph.D in Informatics, University of Edinburgh, UK</td>
<td>Syntactic Parsing, especially dependency parsing, CCG parsing, Neural Network Models for text processing, Speech Recognition and Text to Speech, Cognitive aspects of language</td>
</tr>
<tr>
<td>GOPALAKRISHNAN B</td>
<td>Tata Consultancy Services</td>
<td>Bioinformatics and structural Biology: protein Biophysics, NMR of biomolecules receptor-ligand interactions structure/activity/property-based computer-aided drug design functional annotation of genes, protein trafficking in plasmodium falciparum</td>
</tr>
<tr>
<td>KAMESHWAR CHANDRASEKAR</td>
<td>Senior Staff Software Engineer, Xilinx Inc, Hyderabad</td>
<td>Electronic Design Automation (EDA) software tools and methodology development</td>
</tr>
<tr>
<td>KISHORE S PRAHALAD</td>
<td>Apple, USA</td>
<td>Audio, speech and language processing, machine learning, multimedia systems</td>
</tr>
<tr>
<td>MANISH GUPTA</td>
<td>Microsoft, India</td>
<td>Web Mining, Data Mining, Databases, Algorithms</td>
</tr>
<tr>
<td>MANOJ KUMAR CHINNAKOTLA</td>
<td>Microsoft, AI and Research, India</td>
<td>Information Retrieval, Natural language Processing and Artificial Intelligence</td>
</tr>
<tr>
<td>Name</td>
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<td>Research Areas</td>
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</tr>
<tr>
<td>MONOJIT CHOUDHURY</td>
<td>Researcher, Microsoft Research India</td>
<td>Information Retrieval and Natural Language Processing, Artificial Intelligence, Cognition and Music Analysis</td>
</tr>
<tr>
<td>NAVEENA YANAMALA</td>
<td>Staff Scientist, Health Effects Laboratory Division, National Institute for Occupational Safety and Health (NIOSH), Center for Disease Control and Prevention (CDC)</td>
<td>Interdisciplinary approaches in investigating structure and dynamics of biological molecules; molecular modeling and docking; machine learning techniques for structure based drug design.</td>
</tr>
<tr>
<td>PADMINI GOPALAKRISHNAN</td>
<td>Senior Director, Xilinx Inc., Hyderabad</td>
<td></td>
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<tr>
<td>PETER M SCHARF</td>
<td>President, The Sanskrit Library Fellow, Indian Institute of Advanced study, Shimla</td>
<td></td>
</tr>
<tr>
<td>VAMSHI AMBATI</td>
<td>Founder &amp; CEO, Predera Technologies</td>
<td>Data Science, Machine learning, Natural language processing, Crowdsourcing, Big Data, Cloud Computing</td>
</tr>
</tbody>
</table>

**AFFILIATE FACULTY**

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>NIYATI CHHAYA</td>
<td>Computer Scientist, Big Data Experience Lab, Adobe Research, India</td>
</tr>
</tbody>
</table>