INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY, HYDERABAD

Activity report

PRESENTED AT eCONVOCATION 2021
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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.
GOVERNING COUNCIL

Prof. Raj Reddy
University Professor of Computer Science & Robotics, School of Computer Science, Carnegie Mellon University (CMU), Pittsburgh, USA

Ms. Debjani Ghosh
President, National Association of Software and Service Companies (NASSCOM), New Delhi

Shri C Srinivasa Raju (Srini Raju)
Chairman, iLabs Group, Hyderabad

Shri. Ajit Rangnekar
Director General, Research and Innovation Circle of Hyderabad [RICH], Hyderabad

Prof. Sanghamitra Bandyopadhyay
Director, Indian Statistical Institute Kolkata (ISI Kolkata)

Prof. Subhasish Chaudhuri
Director, Indian Institute of Technology Bombay (IIT Bombay)

Dr. Gagandeep Kang
Professor, Christian Medical College (CMC), Vellore

Shri. Jayesh Ranjan
(Ex-officio) Principal Secretary, Industries & Commerce & IT Departments, Government of Telangana

Smt. Chitra Ramachandran, IAS
(Ex-officio) Special Chief Secretary to Higher Education, Government of Telangana Hyderabad
Panel of Past Directors

Prof. Rajeev Sangal
Former Director, Indian Institute of Technology (Banaras Hindu University) (IIT BHU), Varanasi

Prof. Narendra Ahuja
Donald Biggar Willet Professor of Engineering, University of Illinois, USA

Alumni Observers

Mr. Vipul Kedia
Alumni Observer Director, Partnerships, Affle India Pvt. Ltd, Gurgaon

Deepthi Singh Sharma
Sr. Technical Program Manager, Walmart Labs India

Advisory Panel

Dr. Vinton G Cerf
Vice President and Chief Internet Evangelist, Google
DIRECTOR’S MESSAGE

Another academic year comes to a close and a fresh set of undergraduate and post-graduate students leave the safe environment of IIIT Hyderabad with hope and determination in their hearts. However, we have had the most unusual academic year in living memory, one in which no classes were held on campus. Everything shifted to cyberspace. Although teachers and the taught adapted to online teaching with reluctance and under inner protest initially, they soon realigned to the ‘new normal’ and academics were completed on time and effectively. And the 580 students who completed all requirements for their respective degrees are graduating today. I congratulate you all and tip my hat to your fortitude and perseverance as it takes a lot to focus amidst the chaos around you. Special appreciation is due to your families too who had to comply quickly. The rest of the students, teachers, parents, and the institute community too continued with their mission while enduring much in daily lives.

You are entering a new world shaped in different ways by the coronavirus pandemic. Most aspects of life will change based on its experience. We must ensure they change for the better for everyone. Graduates of IIIT Hyderabad are indeed very privileged to have much to look forward to. They must pay special attention to those who fell behind in the aftermath of the outbreak. An enhanced display of humanity would be a fitting response to a contagion that tried to cripple the world. The institute has striven from the start to create competent, creative, and caring graduates who change the world. The future will offer ample opportunities to put your competence to creative use, but be fundamentally caring about your own impact in a world that you can help create.

Go forward in the journey of life and strive to make a difference to the individuals and the society around you! Good luck!
PROFILE OF THE CONVOCATION SPEAKER

Joshua Bengio is recognized worldwide as one of the leading experts in Artificial Intelligence, known for his conceptual and engineering breakthroughs in artificial neural networks and deep learning. He is a Full Professor in the Department of Computer Science and Operations Research at Université de Montréal and the Founder and Scientific Director of Mila – Quebec Artificial Intelligence Institute, one of the largest academic institutes in deep learning and one of the three federally-funded centers of excellence in AI research and innovation in Canada.

He began his studies in Montreal, where he obtained his Ph.D in Computer Science from McGill University in 1991. After completing a postdoctoral fellowship at the Massachusetts Institute of Technology (MIT) on statistical learning and sequential data, he completed a second postdoc at AT&T Bell Laboratories, in Holmdel, NJ, on learning and vision algorithms in 1993. That same year, he returned to Montreal and joined UdeM as a faculty member.

In 2016, he became the Scientific Director of IVADO. He is Co-Director of the CIFAR Learning in Machines & Brains program that funded the initial breakthroughs in deep learning and since 2019, holds a Canada CIFAR AI Chair and is Co-Chair of Canada’s Advisory Council on AI.

In 2021, Joshua Bengio became the second most cited computer scientist in the world. Concerned about the social impact of AI, he actively took part in the conception of the Montreal Declaration for the Responsible Development of Artificial Intelligence. His goal is to contribute to uncovering the principles giving rise to intelligence through learning while favouring the development of AI for the benefit of all.

Joshua Bengio was made an Officer of the Order of Canada and a Fellow of the Royal Society of Canada in 2017 and in 2020, became a Fellow of the Royal Society of London. From 2000 to 2019, he held the Canada Research Chair in Statistical Learning Algorithms. He is a member of the NeurIPS Foundation advisory board and Co-Founder of the ICLR conference.

His scientific contributions have earned him numerous awards, including the 2019 Killam Prize for Natural Sciences, the 2017 Government of Québec Marie-Victorin Award, the 2018 Lifetime Achievement Award from the Canadian AI Association, the Prix d’excellence FRQNT (2019), the Medal of the 50th Anniversary of the Ministry of International Relations and Francophonie (2018), the 2019 IEEE CIS Neural Networks Pioneer Award, ACFAS’s Urgel-Archambault Prize (2009) and in 2017, he was named Radio-Canada’s Scientist of the Year.

He is the 2018 laureate of the A.M. Turing Award, “the Nobel Prize of Computing,” alongside Geoffrey Hinton and Yann LeCun for their important contributions and advances in deep learning.
ACADEMIC PROGRAMMES

The institute’s programmes at the undergraduate and postgraduate levels combine coursework with research and development. Students get actively involved with technology development, some of which has been adopted by the industry. The institute offers:

SINGLE DEGREE PROGRAMMES

- B.Tech in Computer Science and Engineering (CSE)
- B.Tech in Electronics and Communication Engineering (ECE)

DUAL DEGREE PROGRAMMES

- B.Tech in Computer Science and Engineering and Master of Science in Computer Science and Engineering by Research (CSD)
- B.Tech in Electronics and Communication Engineering and Master of Science in Electronics and Communication Engineering by Research (ECD)
- B.Tech in Civil Engineering and Master of Science in Building Science and Engineering by Research (BSE)
- B.Tech in Computer Science and Master of Science in Computational Linguistics by Research (CLD)
- B.Tech in Computer Science and Master of Science in Computational Natural Sciences by Research (CND)
- B.Tech in Computer Science and Master of Science in Computing & Human Sciences by Research (CHD)
POSTGRADUATE PROGRAMMES IN IT AND ITS APPLICATIONS TO VARIOUS RELATED FIELDS:

Along with high calibre 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>M.Tech</th>
<th>Master of Science</th>
<th>Ph.D</th>
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<td>Computer Science and Engineering</td>
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<tr>
<td>Electronics and Communication Engineering</td>
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<td>Computer Science and Information Security</td>
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<td>Product Design and Management</td>
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<td>Computer Aided Structural Engineering</td>
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<td>Computational Natural Sciences</td>
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<td>Bioinformatics</td>
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<td>Computational Linguistics</td>
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<td>Human Sciences</td>
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<td>Cognitive Science</td>
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<td>Spatial Informatics</td>
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<td>IT in Building Science</td>
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<td>Civil Engineering</td>
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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.
THE IIIT GOLD MEDAL - 2021

The IIIT 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 IIIT Gold Medal is awarded to:

Aadilmehi J Sanchawala  
B.Tech CSE

Dara Sai Krishna Charan  
B.Tech ECE

Shashank Srikanth  
Dual Degree CSE

Y V S Harish  
Dual Degree ECE (Lateral Entry)

Utkarsh Mehotra  
Dual Degree ECE

Yashaswi Pathak  
Dual Degree Computational Natural Sciences

Tanmai Khanna  
Dual Degree in Computational Linguistics

Madhur Garg  
Dual Degree in Building Science and Engineering

B Pratikkumar Suresh Kumar Komal  
M.Tech in CSE

V R N Sricharan Priyatham  
M.Tech in Computer Science and Information Security

Barma Chetan  
M.Tech in Computer Aided Structural Engineering

P Priyanka  
M.Tech in Computer Aided Structural Engineering

Shafiq Mujtaba  
M.Tech in Computer Aided Structural Engineering

Maaz Nayeem  
M.Tech in Computer Aided Structural Engineering
B.TECH - BEST ALL ROUNDER - 2021

This award is presented to:

Vakada Lakshmi Sireesha
Dual Degree in CSE

Aashna Jena
Dual Degree in CL

Notable contributions and performances in different areas such as academics, extracurricular activities and IIITH services were considered in the selection of the best all rounders.

B.TECH – BANYAN AWARD – 2021

Anumolu Venkata Sunil Kumar
B.Tech in CSE

For consistent voluntary efforts towards facilitating responsible participation of students in administrative processes relating to students’ affairs – both curricular as well as extracurricular activities.
VIJAY KUMARI SHARMA & RITESH KUMAR TIWARI ENDOWMENT FOR THE OUTSTANDING MASTER OF SCIENCE THESIS AWARD

IIIT Hyderabad gratefully acknowledges the generous contribution of 50 lakhs from Mrs Vijay Kumari Sharma for the establishment of The Vijay Kumari Sharma & Ritesh Kumar Tiwari Endowment. It is our privilege to honour the memory of Ritesh Kumar and his passion for research, with the Outstanding Master of Science Thesis Award.

Ritesh Kumar Tiwari joined IIIT as an Master of Science student in 2004 under Prof. Kamalakar Karlapalem. His main area of research interest was in the domain of information security and particularly in attack resilient protocols, access control, security in workflow management systems and security architectures for semantic web. His research work was supported by Microsoft Research Ph.D fellowship. He also received the IEEE Best Student Paper Award in Services Computing in 2006-07 for his work on SLA Driven Process Security through Monitored E-contracts.

In December 2007, Ritesh was diagnosed with Leukemia. He underwent several rounds of chemotherapy at Apollo Hospitals over the course of the next two years. His guide Prof. Kamalakar Karlapalem whom he referred to as his academic father, the then director Prof Sangal and innumerable friends and staff of IIITH stood by him taking turns at the hospital and hostel as he worked through his condition. He lost his father in 2008. Being the only child of his aging parents, Ritesh took care of his mother even while undergoing treatment. Despite the advanced stage of the disease, Ritesh fought back very courageously and never gave up hope. Ritesh left no stone unturned in fighting back at the disease. He passed away on October 4, 2009 after a valiant battle.

Ritesh was an extremely cheerful person and very dedicated to research. All his friends dearly remember him to be a humble, good natured, and a warm person. Through his persistence, dedication and determination, Ritesh left an indelible mark on the lives of everyone around him.

The endowment will enable every year
- The Vijay Kumari Sharma & Ritesh Kumar Tiwari Outstanding Master of Science Thesis Award - recognising with a medal and a certificate, the outstanding Master of Science thesis among all theses successfully defended during the academic year and
- A contribution in the name of the awardee to support financially needy undergraduate student(s).

OUTSTANDING MASTER OF SCIENCE THESIS AWARDEE (2021)

The Outstanding Master of Science Thesis Award (2021) is awarded to Yashasvi Pathak for his research on Deep Learning Enabled Molecule Design under the guidance of Prof U. Deva Priyakumar
RESEARCH CENTERS

IIIT 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 centers and laboratories at IIITH are either focussed on creation and development of new technologies or application of technologies to unusual domains in innovative ways.

Its research activities are organized around 10 technology centers, 10 domain centers and 3 development centers. Each center has one or more research labs based on their areas of focus headed by a full-time faculty member of IIITH. All faculty are affiliated to one or more centers or labs, depending on their areas of research. The research-focused B.Tech students, Master of Science and PhD students are also affiliated to the centers, based on their area of thesis/research. All research activities of the center are overseen by the Dean, R&D. The centers also organize conferences or other activities in their areas and conduct executive education programmes. The academic activities are organized directly at the level of the institute (overseen by the Dean, Academics).

It engages with industry through various models (e.g. research consultancy, sponsor research, technology transfer and co-innovation). All the 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)

### DEVELOPMENT CENTERS
- Center for Innovation and Entrepreneurship (CIE)
- Center for Open Software (COS)
- Human Values Cell (HVC)

### COMBINED
- Kohli Center on Intelligent Systems (KCIS)
- Smart City Research Center (SCRC)
- Applied Artificial Intelligence (AI) Research Center (INAI)

### 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 (CEH)
- Center for Education Technology and Learning Science (CETLS)
- Lab for Spatial Informatics (LSI)
- Research Centre for eGovernance (RCeG)
KOHLI CENTRE ON INTELLIGENT SYSTEMS (KCIS)

Kohli Centre on Intelligent Systems (KCIS) was established at IIIT Hyderabad 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. The current areas of focus are 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 the Kohli Centre on Intelligent Systems 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. F C Kohli, also known as the Father of Indian Software Industry; 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.
The team of faculty, research students, research staff, and undergraduate students have produced 469 papers in top rated conferences and peer reviewed journals. Faculty and students presented papers in top-tier conferences albeit virtually this year due to COVID-19. In all, 15 of our Ph.D students have external competitive fellowships from TCS, Google, Visvesvaraya, etc. and several more students qualified for CSIR and UGC grants. Three Dual Degree programme students were supported by Huawei Technologies India Pvt. Ltd with scholarships worth Rs. 7.5 lakhs.

IIITH collaborates with several national and international institutions. The institute 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. IIITH works with several corporates on joint work and is actively pushing for the adoption of our research to the world out there.

It has been organizing several lectures and distinguished talks by eminent individuals working broadly on focused disciplines under KCIS.

Apart from granting 9 Visvesvaraya PhD fellowships, 3 Huawei fellowships, an Alexa fellowship and a UGC fellowship, KCIS recently set up 5 Kohli PhD Fellowships for the academic year 2020-21 that will be awarded to candidates with a research aptitude and an interest to work in the broad areas of AI aligned with KCIS.
SMART CITY RESEARCH CENTER

The Smart City Research Center is set up with support from MeitY (Government of India), Smart City Mission and Government of Telangana at IIITH. The research center includes a Living Lab, that’s set up with support from EBTC and Amsterdam Innovation Arena.

There is a huge push for smart cities in India under the Smart Cities Mission, a new initiative by the Government of India to drive economic growth and improve the quality of life of people by enabling local development and harnessing technology to create smart outcomes for citizens. In this ambitious project, 100 cities are being covered for the duration of 5 years with a budget of Rs.100 crore per city per year. The goal of the Living Lab plan is to create an urban area enhancing three value domains: social, economic and environmental.
APPLIED ARTIFICIAL INTELLIGENCE (AI) RESEARCH CENTRE (INAI)

INAI is an initiative to apply AI to population scale problems in the Indian context, combining research and translation. This collaborative effort, championed by Intel and catalyzed by the Government of Telangana, is anchored at IIIT Hyderabad and brings multiple relevant institutions together to work on important problems in the society.

Over the last couple of years, Artificial Intelligence (AI) has changed from a technology with potential to a capability of national importance across the world. While AI has the potential to transform a wide range of sectors, adoption till date has been driven primarily from the consumer sector. Over the last decade, the first demonstration of AI applications has happened in the consumer Internet space with breakthroughs in computer vision, speech recognition and Natural Language Processing.

The real power of AI, though, lies in its transformative potential to address massive societal challenges and provides a global leadership opportunity for India in creating human-centric, foundational technologies and digital infrastructure that reimagines implementation and delivery in the 21st century.

INAI leverages the broader computing strengths of IIT, the academic expertise in AI at the KCIS, the framework and activities of the TII on Data Driven Technologies established at IIT, technology/architecture strength of Intel, the public health expertise of PHFI, as well as expertise from other domain and technology players.
IIIT Hyderabad is structured around research centers and labs unlike the 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, we clinched one consortium project, two joint collaboration projects and over 28 faculty-driven individual projects. Apart from R&D projects, 6 faculty members were awarded with faculty research award grants/unrestricted grants from Adobe Systems, Facebook, Google and Qualcomm.

The institute has also set up two new research centres - Prof. RR Centre for Technology in Service to Society and IIITH-Intel Artificial Intelligence Initiative (INAI)’.

IIITH is indeed honoured and proud to establish a research centre on renowned computer scientist Prof. Raj Reddy, a pioneer of Artificial Intelligence, particularly in Speech Processing and Robotics who was recognized by the Turing Award in 1994. Prof. Reddy has also been passionate about research that benefits people at the bottom of the pyramid in society. The main objective of the Centre is in Service of Society to celebrate and amplify the passion of Prof. Reddy in education and research for the marginalised sections of society.

The other centre, IIITH-Intel Artificial Intelligence Initiative (INAI), is a collaboration with Intel. It is an initiative to apply AI to population scale problems in the Indian context, combining research and translation. The main objective is to focus on application-based AI research and solutions in healthcare and smart mobility sectors.
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, Tampero 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, Innpolis University, University of Agder and Yonsei University.

IIITH is also associated with national reputed organizations such as DRDO, ISRO, Department 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 and, 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. We also work 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, Open Text, Qualcomm, Google, Applied Materials, Inshorts Media Labs, Cyient, STAR Sports India Pvt. Ltd, Rapyuta Robotics Company Limited, Japan, Huawei Technologies India Pvt. Ltd, etc. The institute signed MoUs with ITE&C Department, Government of Telangana & Prof. Jayashankar Telangana State Agricultural University (PJTSAU), Hyderabad jointly, Huawei Technologies India Private Limited, Analline Design Technologies Pvt. Ltd, Rapyuta Robotics Company Limited, Intel Technology India Pvt. Ltd, Navam Innovation Foundation and Agastya International Foundation jointly, Buzzark Simulations Pvt. Ltd, Chennai, Hyderabad Eye Research Foundation (HERF), L V Prasad Eye Institute (LVPEI) and EPAM Systems India Pvt. Ltd, 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. Collaboration with Ripple, a leading Silicon Valley financial technology company has been going on for the Blockchain Centre of Excellence with a total support of $1M USD for over 5 years.
RESEARCH PROJECTS

ESTABLISHMENT OF NEW RESEARCH CENTRES

Prof RR Centre for Technology in Service to Society
Prof Raj Reddy (Prof RR) is a pioneer of Artificial Intelligence, particularly in Speech Processing and Robotics who was recognized by the Turing Award in 1994. He has also been passionate about research that benefits people at the bottom of the pyramid in society. The Institute is very honoured and proud to establish a research centre on a renowned Computer Scientist

IIITH-Intel Artificial Intelligence Initiative
INAII is an initiative to apply AI to population scale problems in the Indian context, combining research and translation.

INAII is focusing on application-based AI research and solutions in the health care and the smart mobility sectors

CONSORTIUM PROJECTS

Kishore Kothapalli, Consortium Member with: CDAC-Mumbai; CDAC-Pune; IRBT; SETS Chennai; NICS/NI; and Consortium Leader CDAC-Hyderabad
Design and Development of Unified Blockchain Framework for offering National Blockchain Services and creation of a Blockchain Ecosystem

Ministry of Electronics and Information Technology (Meity)
JOINT COLLABORATION PROJECTS

Bapi Raju Surampudi jointly collaborated with IITM & TCS
A comprehensive framework for treatment of stroke of upper extremity by combining computational modeling, movement behavior and gaming.  
Ministry of Human Resource Development (MHRD)

Kishore Kothapalli jointly collaborated with IIT Hyderabad & IISc Bangalore
Parallel and Fault-resilient Programming Primitives and Algorithms for Temporal Graph Processing  
Department of Science and Technology (DST)

INDIVIDUAL RESEARCH PROJECTS

Aftab Hussain
Labor Monitoring Device Prototype  
Prakhya Solutions (OPC) Pvt. Ltd

Aniket Alam
Development of a web portal for Information Dissemination to Assam tea garden workers and stakeholders of Assam Tea industry  
Oxfam India

Anil Kumar Vuppala
Crowd Sourcing of Large Speech Data Sets To Enable Indian Language Speech - Speech Solutions (Pilot Project)  
Ministry of Electronics and Information Technology

Azeemuddin Syed
Hardware-Software CoDesign of Long-Distance Smart Cameras  
Analinear Imaging Systems Pvt. Ltd

Bapi Raju Surampudi
Sequential Motor Skills: A Dual System View  
Indo French center for the promotion of advanced research

C V Jawahar
Video reconstruction and lip moment alignment in video call  
Huawei Technologies

Deva Priyakumar U
Novel Target Identification and Drug Repositioning for COVID-19 based on Interaction Network, Molecular Design and Machine Learning  
Science & Engineering Research Board (SERB)

Kamalakar Karlapalem
Guided Discovery of Cognitive Steps within a Task  
JP Morgan Chase Bank

Krishna Reddy P
Crop Darpan System Development Phase I  
The University of Tokyo

Krishnan Marimuthu
Understanding the role of Fast Side Chain Dynamics and Conformational Entropy in Molecular Recognition, Ligand Binding and Allosteric Regulation by Proteins  
Science & Engineering Research Board (SERB)
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<th>Organization/Institution</th>
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<td>Madhava Krishna</td>
<td>Semantic and Active SLAM with Behaviour Learning</td>
<td>Mathworks India Pvt. Ltd</td>
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<td>Madhava Krishna</td>
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<td>Madhava Krishna, Spandan Roy &amp; Hari Kumar Kandath</td>
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<td>Preparation of Eighteen Ward Level Disaster Management Plan – Visakhapatnam City</td>
<td>Resilience Innovation Knowledge Academy (RIKA)</td>
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<tr>
<td>Raghu Babu Reddy Y</td>
<td>Specialized Manpower Development in Software Product, Design and Management - Masters (M.Tech) program in Software product Design and Management</td>
<td>Ministry of Electronics and Information Technology (MeITY)</td>
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<td>Ramesh Loganathan</td>
<td>Support for Entrepreneurial and Managerial Development of MSMEs through Incubators</td>
<td>Ministry of Micro, Small &amp; Medium Enterprises</td>
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<td>Visual tracking for deep data collection in sports</td>
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<td>Rehana Shaik</td>
<td>Decision Support System and Software Development for Real Time Water Quantity and Quality Management of Tunga-Bhadra River System of Tropical India</td>
<td>Department of Science and Technology (DST)</td>
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<td>Modelling Extreme Risk of Water Quality under Hydro climatic Variability for Major River Basins of India</td>
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<td>Sachin Chaudhari</td>
<td>IOT Enabled Smart Cities: Pollution, Health and Governance</td>
<td>Department of Science and Technology (DST)</td>
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### FACULTY RESEARCH GRANT AWARDS/UNRESTRICTED GRANTS

<table>
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<th>Name</th>
<th>Institute/Project</th>
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| **C V Jawahar**             | **CVIT**
| Egocentric Live 4D Perception (Ego4D) Database                                  | Facebook India Online Services Pvt Ltd                                            |
| **CCNSB**                   | **CVIT**
| Deva Priyakumar             | Google Asia Pacific Pte Ltd                                                        |
| Google Unrestricted gift "Intelligent Assistive System for HomeBased Care Delivery " as part of the AI for Social Good "Impact Scholars" program | Google Asia Pacific Pte Ltd                                                        |
| **RRC**                     | **RRC**
| Madhava Krishna & Vineet Gandhi | Qualcomm Innovation Fellowship India 2020 Qualcomm                                  |
| **RRC**                     | **LTSC**
| Vikram Pudi                 | **LITR**
| AlmedHUB: A medical Data Bank Hosting & Data analytics Challenges Framework       | Ministry of Electronics and Information Technology                                |
| **CCNSB**                   | **LITR**
| Vinod Palakkad Krishnanunni  | Bharat Electronics Ltd                                                             |
| Integrated metabolic network reconstruction and modelling of liver regeneration   | Science and engineering research board (SERB)                                      |
| **C V Jawahar**             | **LITR**
| Ravi Kiran Sarvadevabhatla   | Google Asia Pacific Pte Ltd                                                        |
| Unrestricted gift - Collaboration on the foundations of machine learning         | Google Asia Pacific Pte Ltd                                                        |
| **Vasudeva Varma**          | **LITR**
| Unrestricted grant           | Adobe Systems incorporated                                                         |
| Google AI/ML Research Award grant | Google Asia Pacific Pte Ltd                                                        |
ACHIEVEMENTS

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

- **IIITH team win hackathon at virtual summer internship by VISA**
- **Qualcomm Innovation Fellowship Superaward to Prof. Madhava Krishna and Dr. Vineet Gandhi's team**
- **TCS Research Scholarship to K L Bhanu Moorthy**
- **CCNSB students won Best Poster award at Hy-Sci 2020**
- **Best paper award to Dr. K S Rajan and team at ICNS-2021**
- **Book on Building Energy Simulation: A Workbook Using Design Builder by Prof. Vishal Garg and team**
- **IIITH ranked 2nd under India’s best 100 tech-enabled engineering colleges and institutions and 1st in South zone.**
- **Research work by Afifab M. Hussain and team featured as a cover page image in AMF Journal**
- **Analytics show that IIITH’s Virtual Labs initiative cross 20 million page views**
Achintya Manohar Desai, Master of Science in Computer Science & Engineering, Cryptography stream working under the supervision of Dr. Kannan Srinathan has been accepted for a Ph.D programme in Computer Science, Cryptography at University of California – Santa Barbara, California.

Prakrati Dangarh, B.Tech in Computer Science & Master of Science in Computational Natural Sciences (CND dual degree) working under the supervision of Dr. P K Vinod has been accepted for a Ph.D programme in Department of Bioengineering under Dr. Reiko Tanaka at Imperial College London, London.

Shashwat Shrivastava, (ECD-Dual Degree) working under the supervision of Prof. Suresh Purini has been accepted for the Ph.D programme in Electronics and Communications Engineering (ECE) at École polytechnique fédérale de Lausanne (EPFL).

Shashwat Khandelwal, (ECD-Dual Degree) working under the supervision of Prof. Suresh Purini has been accepted for a Ph.D programme in Electronics and Communications Engineering (ECE) at Trinity College, Dublin.

Sravya Kanchi, (Master of Science) working under Prof. Kamal Karlapalem has been accepted for a Ph.D programme in Computer Science and Engineering (CSE) at University Virginia Tech, Blacksburg, Virginia.

Prof. K S Rajan has been co-opted to the Tech Sub-Committee of the Geospatial Data Promotion and Development Committee headed by the Principal Scientific Adviser in pursuance of the new National Geospatial data policy.

Prof. R Pradeep Kumar has been requested by the Governing Council of Indian Association of Structural Engineers (IAssructE) to be the Chief Editor of Structural Engineering Digest (SED).

Dr. P Pravin Kumar Venkat Rao, EERC has been elected as a member of the Institution of Engineers, India (IEI), selected as a life member for the very prestigious Indian Society of Earthquake Technology (ISET), awarded the Indian Association of Structural Engineers National Award 2020 in the category of Promising Young Structural Engineer of the Year Award 2020, an Affiliate Member of the Earthquake Engineering Research Institute (EERI), USA and has also been elected as a Young Member of the RILEM, France.

Dr. Ashok Kumar Das has been selected as an Advisory Board member of the 3rd International Congress on Blockchain and Applications (BLOCKCHAIN ’21) to be held in Salamanca, Spain from 6 – 8 October. Dr Das has also been appointed as an Editor, Journal of Network and Computer Applications (Elsevier) and has been included in the subject-wise ranking of top 2% scientists from India in all fields, in the area of Networking and Telecommunications, and has a world-wide ranking of 580 in his area of research. The ranking is based on an independent study done by Stanford University scientists. He has also been appointed as an Associate Editor of IEEE Systems Journal and an Editor (Technical Committee) of Computer Communications (Elsevier).

Dr. Indranil Chakrabarty has been appointed as a member of the Editorial Board of Journal of Quantum Information Science (JQIS).
The Department of Biotechnology (DBT) has appointed Prof. P Krishna Reddy as member of an Expert Committee for Evaluation/Review of multilateral R&D proposals submitted under joint call between DBT and EUREKA in the area of Key Enabling Technologies for Healthcare, Agriculture and Water.

Dr. K S Vijaya Sekhar, Head, Statistical Cell has been appointed as Editorial Board Member of International Journal of Business Research and Management (IJBRM) of Computer Science Journals, a platform for open access publications.

Dr. Kishore Kothapalli has been appointed as an Associate Editor of Association for Computing Machinery (ACM) - Transactions on Parallel Computing (TOPC) for a period of three years.

Prof. Abhishek Srivastava has been elevated to the grade of IEEE Senior member, an honor bestowed only to those who have made significant contributions in their designated fields.

The 2nd edition of the book on Building Energy Simulation: A Workbook Using Design Builder by Prof. Vishal Garg; Prof. Jyotirmay Mathur, Malaviya National Institute of Technology, Jaipur and Aviruch Bhatia, TERI School of Advanced Studies, New Delhi has been released. The first edition was released in 2017 and was published by Taylor and Francis Group.

RESEARCH

Prof. Vasudeva Verma, was awarded the Google India AI/ML Research Award 2020 for his work on 'Project ANGEL', an initiative aimed at utilizing machine learning techniques for enhancing the well-being of teenagers, especially teenage girls. He also received a Research Award of USD 20,000 from Google for research in Artificial Intelligence (AI)/Machine Learning (ML).

Dr. Deva Priyakumar has been awarded the prestigious Chemical Research Society of India, Bangalore (CRSI) Bronze medal for the year 2021 in recognition of his contributions to research in chemistry.

Prof. Sourav Kumar, 5th year dual degree student working under the supervision of Prof. Dipti Misra Sharma and Salil Aggarwal, 4th year dual degree student working under the supervision of Prof. Rshiika Mamidi ranked second globally at a Workshop on Asian Translation (WAT 2021) shared task.

Maheshwari Himanshu and Bhavyajeet Singh working under the supervision of Prof. Vasudeva Varma participated in a 3C shared task at Second Workshop on Scholarly Document Processing @ NAACL 2021. The model proposed by them was ranked number 1 for Subtask A and for number 2 for Subtask B.
BEST PAPER AWARDS

Research work by Aditya Srinivas Gear, Kritika Prakash, Nonidh Singh and Dr. Praveen Paruchuri on PredictRV: A Prediction Based Strategy for Negotiations with Dynamically Changing Reservation Value has been nominated for the best student paper at the 21st International Conference on Group Decision and Negotiation (GDN 2021).

Durga Prasad Dhulipudi working in Honeywell and a part time Ph.D student of Dr. K S Rajan was awarded best paper award for his research work on Geospatial Object Detection using Machine Learning Aviation Case Study at the 2021 Integrated Communication, Navigation, & Surveillance Conference (ICNS-2021) on Artificial intelligence and machine learning (AI/ML) for aviation applications.

Fourth year CSE and CSD students Aadil Mehdi Sanchawala, Adhithya Arun, and Rahul Sajnani working under the supervision of Dr. Kavita Vemuri received the Best Paper Award at IEEE Conference on Games 2020.

BEST POSTER AWARD

Anurag Jain working under the supervision of Dr. Sujit Gujar received the best poster design award for their work on We might walk together, but I run faster: Network Fairness and Scalability in Blockchains at the Proceedings of International Conference on Autonomous Agents and Multiagent Systems, 2021 (AAMAS'21).

Shweta Kumari, Ph.D student, Center for Computational Natural Sciences and Bioinformatics (CCNSB) and Abishek Bharadhwaj, Ph.D student of CCMB Hyderabad won the best poster award for their research work on Structural Modulation in Smoothened (SMO) upon Cholesterol Binding at the second edition of student-driven conference Hy-Sci 2020 held virtually in December.

OTHER AWARDS AND RECOGNITIONS

Dr. Kavita Vemuri and Vivek Kaushal’s paper on Clickbait – Trust and Credibility of Digital News is available in the Early Access area on IEEE Xplore.

IIITH Team Wins Smart India Hackathon 2020. Since 2017, a nationwide hackathon has enabled lakhs of students to pitch in and innovatively solve some everyday pressing problems faced by governments, industries, and NGOs with the help of technology.

Prof. P Krishna Reddy has been awarded the PAKDD Distinguished Service Award. This award is given to a member of the PAKDD community who has made outstanding service contributions to the PAKDD, through organizational efforts, resulting in making PAKDD conferences successful and has taken exceptional leadership and responsibility towards his/her tasks.

IIIT Hyderabad has been ranked India’s number 5 and Telangana’s number 1 private university in a survey conducted by Education World India Higher Education Rankings for 2021 - 22, as well as ranked number 2 in India and number 1 in Telangana among private engineering institutes.

Research work on Recent Progress on Flexible Capacitive Pressure Sensors: From Design and Materials to Applications by Rishabh B. Mishra working under the supervision of Aftab M. Hussain, Center for VLSI and Embedded Systems Technologies (CVEST) was featured as a cover page image in Advanced Materials Technologies, Vol 6, No 4 April 2021.

Analytics from IIITH’s Virtual Labs initiative, a consortium project of 11 institutes across the country, including several IITs led by IIT Delhi, crossed 20 million page views in the usage of Science and Engineering-related online laboratory materials.
In a global event conducted jointly by University of Helsinki and Slush to tackle the growing urban air pollution crisis, a IIITH team of students made the jury’s cut and featured among the 8 shortlisted teams.

_Adhithya Arun_ and _Meher Shashwat Nigam_, 4th year B.Tech students bagged second place in the 3rd edition of the virtual Blockchain and Data Science hackathon event that was conducted in October 2020.

IIITH ranked prominently in different categories of The Week, an Indian news magazine founded in 1982 and published by The Malayala Manorama Co. Ltd. - 1st in South Zone and 2nd in All India

In a survey conducted by DataQuest in association with Dell Technologies, IIIT Hyderabad ranked second under India’s best 100 tech-enabled Engineering colleges and institutions (including both government and private colleges), and first in the South zone.

IIITH ranked 11th in Outlook’s annual ranking of India’s top 23 Technical Universities in 2020.

IIIT Hyderabad ranked AAAA+ (Outstanding) in All India Technical Colleges by Career 360.

IIIT Hyderabad was ranked the 9th best university in India in a survey conducted by India Today. The ranking criteria is based on PG programs offered in three categories: General (Government and Private), Technical and Medical/Law.

IIITH ranked prominently in different categories of The Week, an Indian news magazine founded in 1982 and published by The Malayala Manorama Co. Ltd.

- 3rd Best Private and Deemed Technical University in India
- 2nd Private and Deemed Technical Universities, South Zone
- 18th Top Technical Universities (All India), includes both Government and Private Universities.
- 7th Technical Universities, South Zone


_Prof. Madhava Krishna_ and _Dr. Vineet Gandhi_’s team won the Qualcomm Innovation Fellowship (QIF) India 2020—2021 for their innovation – Language-Based Navigation with Object Referenced Spatiotemporal Constraints in Autonomous Driving. The student members of this team Unni Krishnan R Nair and Nivedita Rufus were announced Super Winners (Winner of Winners)

M.Tech CSE students _Shanu Gandhi, Shreyas Nagraj, Upinder Singh and Manik Gupta_. B.Tech CSE student Vijayraj S and dual degree student Pradeep P won the hackathon "Payments and Pandemic" in category "Best Use of Visa API", conducted during their virtual summer internship at VISA. Over 50 teams of interns participated from India and around the world in teams of 4-6 size and IIITH was among the 6 winning teams and only team from India to win.

_K L Bhanu Moorthy_ doing Ph.D in Computer Science and Engineering under the supervision of _Dr. Vineet Gandhi_ received a TCS Research Scholarship.
The Institute's Education Outreach made efforts to deliver executive education programs throughout the year. A new PG Certification program on Software Engineering in Data Science was launched in collaboration with Great Learning Pvt Ltd in January 2021. The existing AIML program has produced over 3,000 professionals in about 30 months. Currently, all our executive programs are being delivered in an online mode due to the pandemic. The AIML initiative in collaboration with TalentSprint was rated as one of the best in the country, being recommended by NASSCOM. A similar program in Blockchain and Distributed Ledger Technologies has also seen much traction in the past year.

To excite undergraduate students towards research, IIITH organised Remote Digital Internship Program in August 2020. The program saw two batches with over 250 students participating from pan India. We curated an Online Pedagogy program for teachers and faculties of all education levels. The program was focused on imparting education in online delivery modes using various tools, methodologies and assessment parameters. Online Research Teaser programs were organized for undergraduate engineering students to attract them towards research with previews of latest technology trends. The first rounds of the program were conducted on 3 tech areas of IoT, Cyber Security and Speech Processing.
Due to the pandemic, we had to organise our flagship annual R&D Showcase virtually in March this year. The theme for the showcase was “Technology, Social Impact”. The keynote speaker for the event was Prof Ashok Jhunjhunwala, Department of Electrical Engineering, IIT Madras who spoke on the topic “Towards 100% Renewable Energy”.

Industry Outreach enabled MoUs with Intel to establish INAI and Silicon Labs India to come on board as one of the Corporate Founding Partners for the Smart City Living Labs project.

IIITH has been organizing lectures by eminent personalities working broadly on focused disciplines under the Kohli Center on Intelligent Systems (KCIS). Several individuals from industry and academia have shared their wisdom with our students, faculty and entrepreneurs. Prof. Soumen Chakrabarti, IIT Bombay gave an online talk on Graph Neural Networks and Knowledge Graph Completion on 30 March 2021.

IIITH Hyderabad completed 22 years since its founding in September 2020 and continues to focus on research that matters - graduating competent, creative and caring students making significant contributions to society. We celebrate this milestone through a Distinguished Lecture series, drawing inspiration from the life journeys and lessons of these pioneers in the tech industry.

- Prof. Raj Reddy, University Professor of CS & Robotics, CMU
- Ms. Manisha Saboo, AVP & Campus Head, Infosys Hyderabad SEZ
- Ms. Nivruti Rai, Country Head Intel India, VP Data Centers Group, Intel
- Dr. Vint Cerf, Vice President and Chief Internet Evangelist, Google

The Institute and its faculty played a major role in conducting several conferences and workshops. Some of them are:
- Online Symposium on Quantum information in June 2020
- Theme 2020, Analog Technologies in a Digitally Connected World, ReAp@CVEST one day workshop in October 2020
- Workshop on Post-Editing Technical Translations in Indian Languages in November 2020
- International Workshop for Speech to Speech Machine Translation (IWSSMT-2020) in November 2020
- Workshop on Teaching the Learning Brain in February 2021
- 25th Pacific Asia Conference on Knowledge Discovery and Data Mining (PAKDD-2021) in May 2021
- An online orientation session on Managing my Profile and understanding the Research Landscape on SCOPUS was organised by IIITH library in collaboration with Internal Quality Assurance Cell (IQAC) on 24 February 2021.

Due to Covid 19, our faculty could do one online faculty development program (FDP) called Pedagogy for various engineering college faculty. We have also organized one summer School program, 8 staff training programs and, 3 guest talks; e-Cell students conducted an online Summer-Up camp and Introduction to e-Cell, and 13 other activities from student cultural body.

The Communications Outreach team created videos on IIITH’s various research centres which were widely publicised on the institute's YouTube channel. Since all events including talks, seminars, distinguished lectures etc were online this year, a concerted effort was made to promote them across our various social media channels - LinkedIn, Twitter, Facebook and Instagram - and received greater traction from viewers and reached a much larger audience.

The alumni of the institute are spread all over the world and have been making significant contributions in their respective spheres. The alumni portal is a one-stop portal to connect alumni with students and among themselves. Of the 5,300 alumni contacts we have close to 4,000 alumni registered in our database.
ALUMNI FUND

The alumni have contributed a total of Rs. 1.6 crores towards a scholarship program for needy students. Since November 2020, 64 lakhs was added to the fund. 54 students have received financial assistance through this Alumni Fund, and 28 student beneficiaries have returned the favor by sponsoring another. The Alumni Giving Month fundraising campaign to mitigate Covid impact raised around 20 lakhs between Nov 25- Dec 25 2020. The alumni also helped raise 33 lakhs to enable a cochlear implant of our staff’s daughter and 21.6 lakhs towards Byagari Krishna’s Memorial Fund.

In the Youtube Alumni Speak series, our faculty present alumni in each episode and in the seven episodes done so far we have covered alumni whose work and passion range from cutting edge research, to heading large companies to successful entrepreneurs. In a recent episode we featured alumnus Akash Sinha founder of fintech startup Cashfree who is listed in Forbes India 30 under 30 and alumni Akansh Khurana, Kritika Tandon and Rajesh Pachar co-founders of THB, listed in Business World Disrupt 40 under 40. The alumni blogs have featured 42 alumni so far. Several alumni are actively engaged with Admissions Diversity Campaign. Our alumni also ran a Covid War Room that made a big difference in multiple cities in the country.

IIIT-Hyderabad has a strong emphasis on translating research into products and startups. To enable this, the Center for Innovation & Entrepreneurship (CIE) was setup in 2008, which has since grown to be one of the largest academic incubators in the country. The center has very active programs across the spectrum of a startup journey. Entrepreneurship courses and workshops for students, Product Labs to seed new products from research, a pre-incubation program to help entrepreneurs create new startups, incubation to nurture early stage startups, mentoring programs to improve strategy and business development of the startups, investor pitch days, and several talks/workshops from experts and successful entrepreneurs. Since 2015, the 40,000 sq.ft incubator, that can host 150+ startups, has been financially self-supporting. Today, there are very active programs focused on emerging technology startups, research-based startups, medical technologies, and social technology startups. In the past 13 years, CIE has housed over 300+ startups that have raised about 200 Cr funding and created over 2,000+ jobs. Under the CIE umbrella there are three incubators, actively functioning:

ACCELERATOR PROGRAMS

CIE-IIITH has signed MoU with SucSeed Indovation fund, the new co-investor partner for accelerator programs. SucSeed has been part of last two cohorts of Avishkar held during Feb and June 2021.
INVESTMENTS & GRANTS

NIIDH Entrepreneur in Residence (EIR) is a co-creation model to enable entrepreneurs to leverage research output from IIITH labs leading to deep tech startups with social or commercial applications. It has on-boarded 20 startups till date.

Shoot Up (Research startups) – As part of MeitY TIDE2.0 program, 5 startups which were seeded from IIITH research labs has been granted Rs. 7 Lakhs each.

Demo Day 2021 – CIE IIITH organized April edition of demo day had 11 promising startups pitching to over 30+ investors from various Venture Capital and Angel firms.

CORPORATE FUNDED PROGRAMS

ZF Funded a Social Impact Incubation Program of CIE IIITH, a three-month incubation program, one startup was shortlisted and a grant of Rs. 8.5 lakhs was given by ZF to Cloud-physician for developing a Remote ICU Solutions to help Covid patients and was deployed in 3 underserved hospitals.

STARTUP SUPPORT

Rejig Hyderabad Startups • CIE IIITH played a major role in anchoring the initiative to bring 15+ incubators and enablers together for supporting 100+ startups over 2 months with mentorship and a mega investors and customers demo day.

Fire Up! startup insight series• CIE IIITH organized an online talk series with startup founders, mentors and investors in the network. Over 50+ talks are hosted since last year.

FASStstart- Incubator Operations Education Series – CIE IIITH partnered with leading incubators across India and organized a capacity building workshop series on various facets of incubator operations and strategies to run a successful startup incubator. Representatives from over 60 incubators have participated in these workshops.

Shoot Up micro accelerator • A program curated for PoC stage deep tech startups for enabling them to reach customer acquisition and understand market segments. It involves mapping of mentors to startups based on the need of the startups. It involves helping them in GTM strategy, market segmentation, customer acquisition and investor readiness.

Atal Incubation Center (AIC) at IIIT Hyderabad Foundation is supported by AIM, NITI Aayog to nurture tech-based social enterprises and help India achieve Sustainable Development Goals (SDGs). During April 2020 – May 2021, AIC-IIITH conducted 19 startup events and six training bootcamps for startups. In the same time period, AIC-IIITH signed MoUs with four partners and on-boarded 10 mentors order to provide expert mentorship to startups. In addition, it was a co-host for an international startup pitch event series. The AIC-IIITH incubation space was inaugurated by Shri Somesh Kumar, Chief Secretary to Govt. of Telangana in February 2021. Spread over 10,000 sft, the space is dedicated mainly for the social impact ecosystem and has co-working spaces for meetings, conferences and events.

Technology Transfer Office (TTO) in 2020 evaluated 12 technologies with market potential and six are under active discussions with potential licensees of the deep tech work done in our research centres. Among the 10 market relevant products being developed at TTO's Product Labs, IIIT's API gateway is significant in the sense that our technologies are accessible for public use through APIs and the AskAgastya project (RR centre) has significant social impact (Rural Education). The EIR & Prayas program have about 20 startups out of which this year we have three from our faculty and our students, each. The institute has 7 granted patents, 5 patents published, 30 have been filed and another 10 are in the process of filing. Product Labs has enabled nearly 8Cr revenue to the institute through various projects in the past 18 months, which is taking Product Labs towards self-sustenance path. IIIT Hyderabad Research Park Foundation, a Section 8 company has started promoting collaborations with technology based enterprises.

Our Statistical Cell is ushering to spot our place in various evaluating forums such as National Institute Ranking Framework (NIRF) and Govt. of India’s Atal Ranking of Institutions on Innovation Achievements (ARIA). We are constantly in touch with regulatory bodies viz., MoE (MHRD), UGC, AICTE, AIU, NBA and NAAC to adapt their innovative programs on campus. An Internal Quality Assurance Cell (IQAC), which was created in 2016 to promote quality aspects of University, is actively monitoring academic performance and administrative functioning at regular intervals.
STUDENT LIFE ACTIVITIES

Despite the past year being an unusual year in various ways, our students have managed 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 cultural, NSS, and sports programs, Independence Day and Republic Day celebrations, national festivals, etc. Our students have formed more than 20 Clubs and have organized about 300 events, including a few national and international ones. The events ranged from debates, quizzes, photography, music, dance, art, literature, student newsletter Ping, gaming, hacking, e-Cell, electronics, astronomy, seminars and talks to Parliamentary systems. Despite students being away from campus and scattered across various parts of India and abroad, they efficiently organized the 21st Edition of Felicity, the students’ yearly mega fest, in February 2021 through online mode.

Several talks, workshops, and programs were organized in diverse fields. To mention a few like Indus Inscriptions Were Logographic, Don’t Spell Them Out: Says Semantic Co-occurrence Restriction Patterns by Ms. Bahata Ansumali Mukhopadhyay, The Shape of My Dreams - an Interactive Performance by First Drop Theatre, Netaji Subhash Chandra Bose Jayanti, International Mother Language Day, Tagore’s Birth Anniversary, Satyajit Ray’s Centenary Birth Anniversary, gender sensitization and mental health issues, etc. Furthermore, like every year, a few musical concerts were also organized by Spic Macay.

Students were also engaged in various social activities like spreading awareness during Covid-19 pandemic through awareness posters, participating in Dhoondh – Find and Donate Plasma to Fight Covid, celebrating National Doctor’s Day, Women’s Day, Children Day, Teachers Day, Gandhi Jayanithi, Lal Bahadur Shastri Birthday, World Environment Day, organizing Green India Challenge, and so on.

Physical Education Center (PEC) was also quite active and organized several events. To create awareness about staying fit, a few virtual events were organized, and several recorded videos were released on various editions of Fitness for Good Life, Weekly Dose of Fitness, Core Work out Exercises, and so on. As part of yoga activities, a workshop series on Shatkarmas was conducted which includes Meditation, Pranayam, Jala Neti, Sutra Neti, Vaman Dhauti, Tratak, Shankhaprakshalana, Power Yoga, Surya Namaskar, MSRT [Mind and Sound Resonance Technique], PET [Pramic Energization Technique], CAM [Concentration, Awareness and Memory] etc. The 7th International Yoga Day was celebrated on 21st June on a virtual platform with the theme Yoga at Home and Yoga with Family.
FACULTY

Abhishek Srivastava, 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 (CVEST)

Aditi Mukherjee, Visiting Faculty, Ph.D (Delhi University)
Sociolinguistics, literacy studies (LTRC)

Aftab M Hussain, Assistant Professor, Ph.D (KAUST, Saudi Arabia)
Flexible and stretchable electronics, IoT devices, Smart city research, LoRaWAN devices (CVEST)

Aniket Alam, Associate Professor, Ph.D (JNU, New Delhi)
Western Himalayas and mountain societies; history of state and its institutions; historical methods; geography and history (CEH)

Anil Kumar Vuppala, 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, SPCC)

Ankit Gangwal, Assistant Professor, Ph.D (University of Padua, Italy)
Blockchain, Cryptography, Privacy, and Security (CSTAR)

Anoop M Namboodiri, Associate Professor, Ph.D (Michigan State University)
Pattern recognition, machine learning, computer vision, biometrics (CVIT)

Anshu Sarje, Visiting 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)

Ashok Kumar Das, Associate Professor, Ph.D (IIT Kharagpur)
Cryptography, network security, blockchain, security in Internet of Things (IoT), Internet of Vehicles (IoV), Internet of Drones (IoD), smart grids, smart city, cloud/fog computing and industrial wireless sensor networks, intrusion detection (CSTAR)

Ashwin Jayanti, Assistant Professor, Ph.D (JNU, New Delhi)
Philosophy of technology, ontology of technical artefacts, moral significance of technical artefacts, history and philosophy of science, technology, and society. Analytic philosophy, phenomenology and existentialism (CEH)

Avinash Sharma, Assistant Professor, Ph.D (INRIA Rhone-Alpes)
Computer vision, machine learning (CVIT)
Bapi Raju S, Professor, Ph.D (University of Texas, Arlington)
Neural networks, cognitive modeling, pattern recognition (CogSci)

Bhaswar Ghosh, DBT- Ramalingaswamy Re-entry Fellow, Ph.D (Bose Institute, Kolkata)
Systems biology, biophysics, bioinformatics (CCNSB)

Charu Sharma, Assistant Professor, Ph.D (IIT Hyderabad)
Geometric machine/deep learning (graphs and point clouds), assignment problem (MLL)

Chiranjeevi Yarra, Assistant Professor, Ph.D (IISc Bangalore)
Speech signal processing, machine learning, digital signal processing and time-varying signal analysis (LTRC/SPEECH)

Deepak Gangadharan, 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, faulty tolerant system design (CSG)

Deva Priyakumar U, 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)

Diganta Das, Assistant Professor (Inspire), Ph.D (Institute of Mathematical Sciences, Chennai)
Theoretical High Energy Physics, Particle Physics Phenomenology, Astroparticle Physics & Cosmology: quark and lepton flavor physics, new physics searches, dark matter. (CCNSB)

Dipti Misra Sharma, Professor, Ph.D (Delhi University)
Machine translation, linguistics (LTRC, COS)

Don Wallace Freeman Dcruz, Assistant Professor, Ph.D (University of Hyderabad)
Epistemology and philosophy of cognitive science (CEH)

Girish Varma, Assistant Professor, Ph.D (TIFR Mumbai)
Complexity Theory, combinatorics, computer vision, machine learning (CSTAR, MLL)

Harikumar Kandath, 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)

Harjinder Singh, Professor, Ph.D (Princeton University)
Theoretical, computational chemistry and biology, chemical dynamics electronic structure and properties calculations (CCNSB)

Indranil Chakrabarty, Associate Professor, Ph.D (Bengal Engineering and Science University)
Quantum information (relativistic and non-relativistic), fisher information (CSTAR)
Jawahar C V, Professor, Dean (RnD) & Amazon Chair Professor, Ph.D (IIT Kharagpur)
Computer vision, machine learning, multimedia systems (CVIT)

Jayanthi Sivaswamy, Professor, Ph.D (Syracuse University)
Image processing, medical image analysis and biological vision (CVIT, SPCRC and CITE)

K Madhava Krishna, Professor, Ph.D (IIT Kanpur)
Mobile robotics, robotic vision, outdoor robotics, multi-robotic systems and mechanism design (RRC)

Kamalakar Karlapalem, Professor, Ph.D (Georgia Institute of Technology)
Database system, data visualization, data analytics, multi agent systems, workflows and electronic contracts (DSAC)

Kannan Srinathan, Assistant Professor, Ph.D (IIT Madras)
Cryptography, security (CSTAR)

Kavita Vemuri, Assistant Professor, Ph.D (IIT Hyderabad)
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)

Kishore Kothapalli, Professor, Dean Academics, Ph.D (John Hopkins University)
Multicore and many core algorithms, distributed algorithms (CSTAR)

Krishna Reddy P, Professor, Ph.D (JNU, New Delhi)
Data mining, data management, transaction models, distributed computing, performance evaluation, and information technology for agriculture (ITARD, DSAC)

Lakshmi B S, Part-time Visiting Professor, Ph.D (University of Udine)
Dynamical systems, chaos

Lalitha Vadlamani, Assistant Professor, Ph.D (IISc Bangalore)
Coding theory, information theory, signal processing, distributed storage systems (SPCRC)

Lini Teresa Thomas, Visiting Assistant professor, Ph.D (IIIT Hyderabad)
Skylines, clustering, graph mining, medical document mining (DSAC)

Manish Shrivastava, Assistant Professor, Ph.D (IIT Bombay)
Natural language processing, machine learning, machine translation, NLP for Indian languages (IITRC)

Marimuthu Krishnan, 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)
Nagamanikandan Govindan, Assistant Professor, Ph.D (IIT Madras)
Robotics and control, mechanism design (multimodal grasper and robot design), mobile manipulation, variable stiffness mechanism (RRC)

Nagaraja Ravoori, Geospatial Chair Professor, Ph.D (Osmania University)
Geospatial Technologies (LSD)

Narayanan P J, Professor & Director, Ph.D (University of Maryland)
Computer vision, graphics (CVIT)

Naresh Manwani, Assistant Professor, Ph.D (IISc Bangalore)
Machine learning, data mining, deep learning, natural language processing (MLL)

Nazia Akhtar, Assistant Professor, Ph.D (University of Western Ontario)
Literature and History of Hyderabad, Partition Studies, women's writings, comparative literature (CEH)

Nimmi Rangaswamy, Visiting Associate Professor, Ph.D (University of Mumbai)
Sociology of digital media, ICT for development (SAHAAD Group , KCIS)

Nita Parekh, Associate Professor, Ph.D (JNU, New Delhi)
Pattern recognition (viz., identifying repeats, genomic islands), comparative genomics and data mining, dynamical systems modeling and graph theory approaches to biological networks (CCNSB)

P Pravin Kumar Venkat Rao, Assistant Professor, Ph.D (IIT Roorkee)
Seismic safety assessment of masonry buildings, seismic design of masonry buildings, strengthening and retrofitting of masonry buildings, displacement-based modelling experimental testing and evaluation (EERC)

Pawan Kumar, Assistant Professor, Ph.D (INRIA)
Parallel computing, scientific computing, numerical methods for machine learning and data mining (CSTAR)

Ponnurangam Kumaraguru, Professor, Ph.D (Carnegie Mellon University)
Cyber security, Privacy, Social Computing, Computational Social Science (LTRC)

Prabakar Bhimalapuram, Assistant Professor, Ph.D (Cornell University)
Thermodynamics and statistical mechanics of equilibrium and non-equilibrium systems (CCNSB)

Pradeep Kumar Ramancharla, Professor & Registrar, Ph.D (University of Tokyo)
Earthquake engineering and structural dynamics, analysis and design of RC structures, numerical simulation of non-engineered buildings, development of awareness raising tools for earthquake disaster mitigation, collapse analysis of structures (EERC, BSRC)
Praful Mankar, Assistant Professor, Ph.D (IIT Kharagpur)
Next-generation wireless networks, Internet-of-things (IoT), age-of-information (AoI), stochastic geometry, queueing theory (SPCRC)

Prasad Krishnan, Assistant Professor, Ph.D (IISc Bangalore)
Codes for wireless communications, index coding, coded caching, network coding, codes for DNA storage (SPCRC)

Praveen Paruchuri, Associate Professor, Ph.D (University of Southern California)
Artificial intelligence, multi-agent systems, game theory (MLL)

Priyanka Srivastava, Senior Research Scientist, Ph.D (University of Allahabad)
Visual and auditory perception, cognition, human factors, spatial perception and representation, and virtual reality (CogSci)

Radhika Krishnan, Assistant Professor, Ph.D (JNU, New Delhi)
Technology studies, ecology, development and labour (CEH)

Radhika Mamidi, Associate Professor, Ph.D (University of Hyderabad)
Computational morphology, machine translation, dialog systems, pragmatics, humour studies (LTRC)

Raj K S, Professor, Ph.D (University of Tokyo)
Application of GIS and remote sensing to sustainable environmental issues (LSI, EERC, COS)

Rajeev Sangal, Professor, Ph.D (University of Pennsylvania)
Natural language processing, artificial intelligence, machine translation, speech processing (LTRC, CEH)

Ramachandra Prasad P, 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)

Ramesh Loganathan, Professor of Practice, Co-innovations, ME (Anna University, Guindy)
Software engineering, entrepreneurship, innovation (SERC, CIE)

Ravi Kiran Sarvadevabhatla, Assistant Professor, Ph.D (IISc Bangalore)
Computer vision, machine learning, virtual reality, robotics, affective computing, document analysis, multimedia (CVIT)

Sachin Chaudhari, Assistant Professor, Ph.D (IIT Madras)
Next-generation wireless communication systems: 5G and beyond, internet of things, cognitive radios (SPCRC)

Samyadeb Bhattacharya, Assistant Professor, Ph.D (University of Calcutta)
Open quantum dynamics and spin system, quantum thermodynamics (CSTAR)
Santosh Nannuru, Assistant Professor, INSPiRE, Ph.D (McGill University)
Signal processing, target localization and tracking (SPCRC)

Sarma K R, Professor Emeritus, Ph.D (Cornell University)
Communication, instrumentation and displays (SPCRC)

Saroja T K, Lecturer, Ph.D (Sri Padmavathi Mahila Viswa Vidyalayam, Tirupathi)
Indian classical music with focus on south Indian music (CEH)

Semparithi Aravindan, Senior Systems Scientist, Ph.D (IIT Kanpur)
Energy flow in molecules, structure and dynamics of molecular clusters (CCNSB)

Shaik Rehna, Assistant Professor, Ph.D (IISc Bangalore)
Hydrologic impacts of climate change, statistical downscaling, uncertainty modeling, water quality management, reservoir operation, irrigation planning (LSI)

Shantanav Chakraborty, Assistant Professor, Ph.D (University of Lisbon)
Quantum computing, quantum algorithms, quantum walks (CSTAR)

Shatrunjay Rawat, Systems Associate Professor, MS (BITS Pilani)
Computer networks, information security, network forensics, e-governance, human values, Vedic darshan (philosophy) (CSTAR, COS)

Spandan Roy, Assistant Professor, Ph.D (IIT Delhi)
Adaptive-robust control, time-delayed control (with artificial delay), sliding mode control, control applications to robotics (RRC)

Subhadip Mitra, Assistant Professor, Ph.D (IIT Kanpur)
High energy physics theory/phenomenology, cosmology (CCNSB)

Sujit P Gujar, 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)

Sunitha Palissery, Assistant Professor, Ph.D (IIT Madras)
Seismic design of buildings, seismic non-linear behaviour of buildings (EERC)

Suresh Purini, Associate Professor, Ph.D (University of Maryland)
Compilers, parallel and distributed systems, virtualization, cloud computing and complexity theory (CSG)

Sushmita Banerji, 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 (CEH)
Syed Azeemuddin, Associate Professor, Ph.D (Southern Illinois University, Carbondale)
RFIC design integrated RF devices incorporated with patterned ferromagnetic materials, micro/nanoelectronics and integrated photonics, optical devices using ring lasers (CVEST, SPCRC)

Tapan Kumar Sau, 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)

Ubaidulla P, Assistant Professor, Ph.D (IISc Bangalore)
Signal processing, wireless communication, robust and distributed algorithms for communication systems, convex optimisation (SPCRC)

Vasudeva Varma, Professor, Ph.D (University of Hyderabad)
Information retrieval, social media analysis, semantic search, cloud computing and software engineering (SERC, LTRC, CIE)

Venkatesh Choppella, Associate Professor, Ph.D (Indiana University) - on leave
Programming languages, S/W architectures, formal methods, CS education (SERC, COS)

Venkateshwarlu M, Professor Emeritus, Ph.D (University of Waterloo)
Discrete systems, wave phenomena in solid media, finite element models, probability, statistics, stochastic processes in engineering (EERC, BSRC, CETLS)

Vignesh Sivaraman, Assistant Professor, Ph.D (National University of Singapore)
Information-Centric Networks, Internet of Things, Privacy (CSG)

Vikram Pudi, Associate Professor, Ph.D (IISc Bangalore)
Data mining, artificial intelligence, database systems (DSAC, COS)

Vineet Gandhi, Assistant Professor, Ph.D (INRIA)
Computer vision and multimedia, human detection and tracking, computational photography and cinematography, depth reconstruction and applications (CVIT)

Vinod P K, Assistant Professor, Ph.D (IIT Bombay)
Computational systems biology, non-linear dynamics, network biology, systems pharmacology (CCNSB)

Vinoo Alluri, Assistant Professor, Ph.D (University of Jyväskylä)
Cognitive science, neuroimaging, music information retrieval, music cognition, music therapy, cross-cultural studies, audio signal processing (CogSci)

Vishal Garg, Professor, Ph.D (IIT Delhi)
Task control of lighting, heating, air-conditioning using fuzzy logic, smart occupancy sensors, fuzzy logic based protocol for wireless sensors network, intelligent building, IT in building science (BSRC, EERC)

Viswanath K, Research Professor, Ph.D (ISI Calcutta)
Mathematical computer science, pedagogical issues (SERC)

Zia Abbas, 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)
## LECTURERS

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Details</th>
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</thead>
<tbody>
<tr>
<td>Jayachandran S</td>
<td>The confluence of dance, temple architecture and temple rituals (CEH)</td>
</tr>
<tr>
<td>Puja Chauhan</td>
<td>Hand embroidery, sewing, garment making and design (CEH)</td>
</tr>
<tr>
<td>Shajil K G</td>
<td>Story of baked earth (art of terracotta) (CEH)</td>
</tr>
<tr>
<td>Sunil M Lohar</td>
<td>Folk art and aesthetic (CEH)</td>
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</tbody>
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## ADJUNCT FACULTY

<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Details</th>
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<tbody>
<tr>
<td>Anil K Jain</td>
<td>University Distinguished Professor, Dept. of Computer Science &amp; Engineering, Michigan State University, USA 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 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 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 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 Electronic Design Automation (EDA) software tools and methodology development.</td>
</tr>
<tr>
<td>Kishore S Prahallad</td>
<td>Apple, USA Audio, speech and language processing, machine learning, multimedia systems</td>
</tr>
<tr>
<td>Manish Gupta</td>
<td>Microsoft, India Web Mining, Data Mining, Databases, Algorithms.</td>
</tr>
</tbody>
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## DISTINGUISHED FACULTY

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Anandan P</td>
<td>Microsoft Research India</td>
</tr>
<tr>
<td>Ashok Jhunjhunwala</td>
<td>IIT Madras</td>
</tr>
<tr>
<td>Narendra Ahuja</td>
<td>Donald Biggar Willet Professor of Engineering, University of Illinois</td>
</tr>
<tr>
<td>Ramamoorthy M</td>
<td>IEEE Fellow, Former DG of EPRI &amp; Advisor, ERDA, Vadodara</td>
</tr>
<tr>
<td>Sitaram N</td>
<td>Non-Executive Part-time Independent Director, Bharat Electronics Ltd.</td>
</tr>
<tr>
<td>Vidyasagar M</td>
<td>Executive Vice President, Advanced Technology Center, TCS</td>
</tr>
<tr>
<td>Vineet Chaitanya</td>
<td>IIIT Hyderabad</td>
</tr>
<tr>
<td>Name</td>
<td>Title/Position</td>
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<tr>
<td>Manoj Kumar Chinnakotla</td>
<td>Microsoft, AI and Research, India</td>
</tr>
<tr>
<td>Monojit Choudhury</td>
<td>Researcher, Microsoft Research India</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>
</tr>
<tr>
<td>Padmini Gopalakrishnan</td>
<td>Senior Director, Xilinx Inc, Hyderabad</td>
</tr>
<tr>
<td>Peter M Scharf</td>
<td>President, The Sanskrit Library Fellow, Indian Institute of Advanced study, Shimla</td>
</tr>
<tr>
<td>Vamshi Ambati</td>
<td>Founder &amp; CEO, Predera Technologies</td>
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**AFFILIATE FACULTY**

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<tr>
<th>Name</th>
<th>Title/Position</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>
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Prof. C R Rao Road, Gachibowli, Hyderabad 500 032, Telangana, INDIA