

# SPACETECH INNOVATION DOCKET

**DISCOVER. NETWORK. CONNECT.**



# Space-Tech Startup Ecosystem in Hyderabad

Hyderabad is swiftly emerging as a **hub for space-tech innovation**, with startups working across **launch vehicles, propulsion systems, satellite platforms, AI-enabled orbital systems, and even space tourism**. Unlike earlier decades where access to space was limited to national agencies, today's startups are democratizing the sector with modular designs, reusable systems, and cost-effective access.

Much like how personal computers and smartphones created new digital eras, space-tech today is building the **backbone of India's deep-tech revolution**—impacting how nations explore, connect, and secure themselves. This revolution is not confined by geography; it is unfolding in Hyderabad, where a unique mix of aerospace legacy, talent, and policy support is fueling momentum.

Recognizing this shift, this directory has been curated to spotlight the **thriving ecosystem of space-tech startups in Hyderabad**.

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# Introduction

The Hyderabad Space-Tech Startups Directory was created to map the rapidly evolving landscape of private space ventures emerging from the city. As Hyderabad positions itself as a leading deep-tech and aerospace hub, this directory serves as a strategic resource for investors, corporates, academia, and ecosystem enablers.

It offers visibility into:

**Who is building what,  
Where the momentum lies,  
How collaborations can accelerate India's space economy.**

By curating this information, the directory aims to enable discovery, foster partnerships, and accelerate adoption of indigenous space technologies.

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## Approach

The Hyderabad Space-Tech Startups Directory was created through collaboration with incubators, accelerators, aerospace clusters, and academic institutions. Data was gathered from surveys, founder insights, public filings, and industry reports to ensure accuracy and relevance.

Startups were classified by:

**Domain:** Propulsion, Satellite, Geospatial, Aerospace, Academic Research  
**Technology focus:** Communications, AI/ML, Imaging Tech, Material Science , Chemistry  
**Stage of Growth:** Pre-Seed, Seed, Venture-backed, Growth.

We also studied funding stages, team sizes, and founder backgrounds to capture a comprehensive picture of the ecosystem.

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## Target Startups

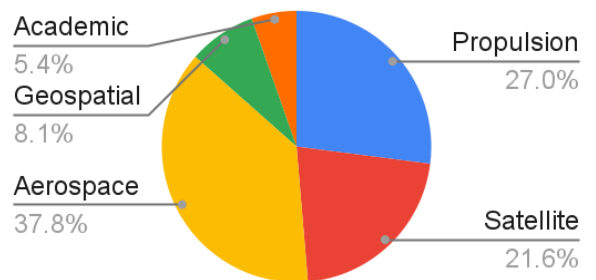
The Hyderabad Space-Tech Directory captures startups across the full spectrum of the sector — **Launch & Propulsion** (rockets, cryogenic engines, modular spacecraft), **Satellites & Payloads** (smallsat platforms, deployment systems, imaging), **Space Tourism** (near-space balloon missions), **AI in Space** (autonomous “thinking satellites”), and **Subsystems & Materials** (propulsion modules, integration, advanced materials).

# Profile-Analysis of the startups in Hyderabad

## Breaking down Hyderabad's Spacetech startup landscape by domain

**Aerospace** leads with 37.8%, underscoring Hyderabad's strength in manufacturing and integration. **Propulsion** follows at 27%, driven by launch vehicle and cryogenic innovations. **Satellite ventures** account for 21.6%, reflecting rising demand for smallsats and imaging. **Academic Research** (5.4%) and **Geospatial** players (8.1%) round out the ecosystem, signaling research depth and niche opportunities.

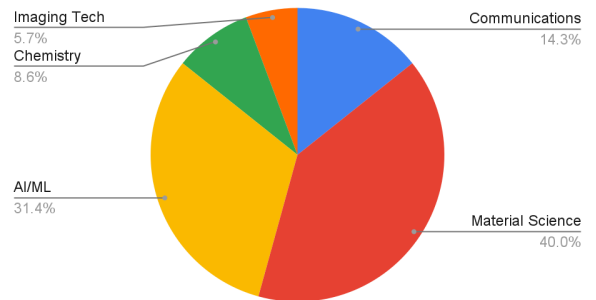
### Domain



## Technologies that power Hyderabad's Space-Tech startups

**Material Science** dominates at 40.0%, reflecting the ecosystem's focus on advanced materials for propulsion, satellites, and space durability. **AI/ML** follows with 31.4%, underscoring the rise of autonomous systems and in-orbit intelligence. **Communication technologies** account for 14.3%, highlighting demand for connectivity and ground-to-space solutions. **Chemistry-driven innovations** (8.6%) support propulsion and fuel systems, while **Imaging tech** (5.7%) captures opportunities in earth observation and payload applications.

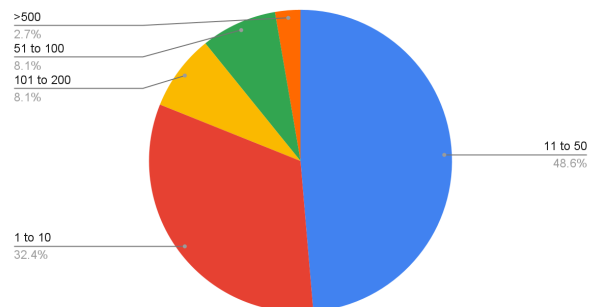
### Tech Domain



## Team Sizes of Space-Tech Startups in Hyderabad

Lean teams of 11–50 dominate at 48.6%, reflecting agile builds and focused engineering capacity. Very small teams (1–10) make up 32.4%, signaling early-stage, founder-driven ventures. Mid-sized setups of 51–200 employees (8.1%) represent scaling companies balancing R&D with operations. Larger workforces — 201–500 (8.1%) and 500+ (2.7%) — are limited to legacy and established players, underscoring a still-nascent but fast-maturing ecosystem.

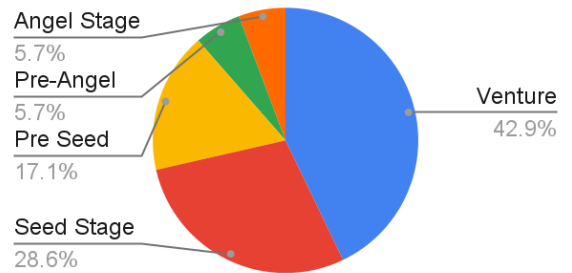
### Team Size



## Stage of Space-Tech Startups in Hyderabad

**Venture Capital**-backed startups dominate at **42.9%**, reflecting strong investor confidence and readiness to scale. **Seed-stage** ventures form **28.6%**, underscoring active experimentation and early market validation. **Pre-Seed** startups (**17.1%**) highlight a vibrant pipeline of emerging ideas, while **Angel-backed** firms (**5.7%**) represent those transitioning beyond MVPs. A smaller share of **Pre-Angel** (**5.7%**) shows continued activity at the very early ideation phase, signaling sustained inflow of new innovators into the ecosystem

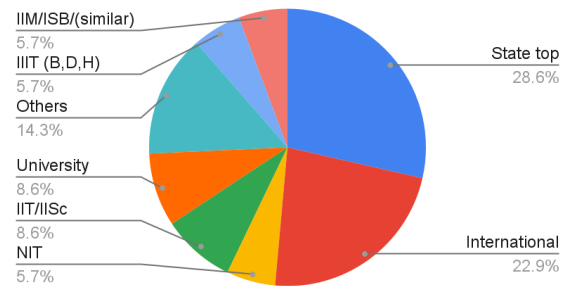
### Funding Stage



## Educational Background of Space-Tech Startup Founders

**State top universities** lead at **28.6%**, reflecting the strong role of local institutions in nurturing deep-tech talent. **International universities** account for **22.9%**, highlighting global exposure among founders. **Others** (**14.3%**) represent diverse educational pathways feeding into the ecosystem. **IIITs** (**5.7%**), **NITs** (**5.7%**), and **IIM/ISB or similar** (**5.7%**) collectively showcase premier institutions contributing to entrepreneurial leadership. **University engineering colleges** (**JNTU,OU**) (**8.6%**) and **IISc** (**8.6%**) further strengthen the pipeline, underscoring Hyderabad's balanced mix of local, national, and international talent.

### Educational Background of the Founders



## Domain : Propulsion

### **Skyroot Aerospace**

Skyroot Aerospace is developing the Vikram series of modular small-lift launch vehicles using advanced carbon composites and 3D-printed engines for affordable and reliable access to space.

**Founder Name:** Pawan Kumar Chandana

**Age of company:** >7 Years

**Tech Domain:** Communication

**Stage of startup:** Venture Capital

**Website:** <https://skyroot.in/index.html>



### **Onnes Cryogenics**

Onnes Cryogenics develops spacecraft fuel tanks using ultra-light carbon-fiber composite (CFRP) with integrated cooling systems—enabling efficient mid-space refueling and reducing payload constraints.

**Founder Name:** Vikram S Raghavan

**Age of company:** <1 Year

**Tech Domain:** Material Science

**Stage of startup:** Seed Stage

**Website:** <https://onnes.in/>



### **KosmosOne**

KosmosOne is developing the world's first autonomous, modular CubeSat-cluster space laboratory—featuring AI-controlled robotic arms—for in-orbit R&D, experimentation, and reconfigurable space operations.

**Founder Name:** Atharva Barbudhe

**Age of company:** 5 Years

**Tech Domain:** AI/ML

**Stage of startup:** Pre-Seed Stage

**Website:** <https://kosmosone.com/>



## Space Aura

Space Aura is building luxurious, carbon-neutral space capsules (like the "Spaceship SKAP1") lifted by high-altitude balloons, featuring pressurized cabins, life-support systems, GPS tracking, and parafoil landing—for immersive near-space tourism and experiential marketing campaigns.

**Founder Name:** Aakash Porwal

**Age of company:** <8 Years

**Tech Domain:** Material Science

**Stage of startup:** Pre-Seed Stage

**Website:** <https://www.spaceaura.com/>



## N Space Tech

N Space Tech builds CubeSats, RF subsystems, and advanced antennas for satellite communication and ground systems. With fully in-house design and manufacturing, it enables cost-effective space connectivity and educational missions.

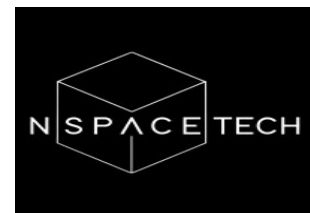
**Founder Name:** Divya Kothamasu

**Age of company:** 5 Years

**Tech Domain:** Communications

**Stage of startup:** Seed Stage

**Website:** <https://www.nspacetech.in/>



## Rave Gears

Rave Gears produces aerospace-grade spiral bevel, hypoid, spur, and helical gears using advanced CNC "grind-from-solid" technology. With AS9100 certification and precision engineering software, it delivers high-efficiency, reliable power transmission systems.

**Founder Name:** Nick Patel

**Age of company:** 13 Years

**Tech Domain:** Material Science

**Stage of startup:** Venture Capital Stage

**Website:** <https://ravegears.com/>



## Abyom SpaceTech

Abyom SpaceTech builds reusable rockets with re-ignitable cryogenic engines for cost-effective space access. Its plug-and-play test facility enables rapid development and sustainable launches.

**Founder Name:** Jainul Abedin  
**Age of company:** 15 Years  
**Tech Domain:** Material Science  
**Stage of startup:** Venture Capital Stage  
**Website:** <https://abyom.com/>



## Stardour

Stardour is developing Lucas, a modular Orbital Transfer Vehicle powered by in-house hydrogen-oxygen (green) propulsion, for sustainable in-space logistics across LEO, GEO, the Moon, Mars, and beyond.

**Founder Name:** Sankarsh Chanda  
**Age of company:** 15 Years  
**Tech Domain:** Chemistry  
**Stage of startup:** Seed Stage  
**Website:** <https://stardour.com/>



## SpanTrik

SpanTrik is developing Raven—a fully reusable, two-stage-to-orbit medium-lift launch vehicle powered by green LNG-LOX propulsion, crafted with simplified structures and in-house manufacturing to deliver affordable, sustainable access to space.

**Founder Name:** Kajal Rajbhar  
**Age of company:** 3 Years  
**Tech Domain:** Chemistry  
**Stage of startup:** Pre Angel Stage  
**Website:** <https://spantrik.com/>



## Trishul Space

Trishul Space develops advanced rocket propulsion systems, including their flagship Harpy-1 liquid engine, using staged combustion and AI-powered failure detection for reliable satellite launches. They provide ready-to-use propulsion solutions to streamline launch operations for satellite manufacturers.

**Founder Name:** Aditya Singh

**Age of company:** 3 Years

**Tech Domain:** Material Science

**Stage of startup:** Pre Revenue Stage

**Website:** <https://www.trishulspace.com/>



## Domain : Satellite

### Aganitha Space Technologies

Aganitha Space Technologies builds satellites, laser communication systems, and debris-removal solutions using AI, real-time data fusion, and aerospace manufacturing to advance sustainable space operations. They also develop HaritGlo, a green-hydrogen technology converting methane into clean energy.

**Founder Name:** Narasimha Sharma

**Age of company:** 2 Years

**Tech Domain:** AI/ML

**Stage of startup:** Pre-Seed Stage

**Website:** <https://www.aganithaspace.com>



### Xdlinx

XDLINX Space Labs develops small satellites and end-to-end mission solutions for commercial and defense ISR applications using advanced satellite platforms. Their flagship ELEVATION-1 project employs miniaturized E-band communication technology for ultra-fast, secure data transfer up to 10 Gbps.

**Founder Name:** Rupesh Gandupalli

**Age of company:** 3 Years

**Tech Domain:** Imaging Tech

**Stage of startup:** Venture Capital Stage

**Website:** <https://xdlinx.space/>



### Dhruva Space

Dhruva Space builds modular small-satellite platforms (P-DoT to P-30), satellite orbital deployers (DSOD), and operates scalable ground stations licensed as Ground-Station-as-a-Service—offering a full-stack solution from design to orbit.

**Founder Name:** Sanjay Nekkanti

**Age of company:** 13 Years

**Tech Domain:** Communications

**Stage of startup:** Venture Capital Stage

**Website:** <https://www.dhruvaspace.com/>



## ZestIoT

ZestIoT Technologies offers GroundRadar and NoCodeAI, AI- and IoT-powered platforms that automate operations, provide real-time analytics, and enable predictive maintenance across aviation and industrial sectors.

**Founder Name:** Amit Sukhija

**Age of company:** 9 Years

**Tech Domain:** AI/ML

**Stage of startup:** Venture Capital Stage

**Website:** <http://www.zestiot.com/>



## Eon Space Lab

Eon Space Labs develops miniaturized high-resolution EO/IR imaging systems and space telescopes like MIRA, integrating AI-driven object identification and real-time data transmission. Their technology supports satellites, drones, and ground platforms with precision-engineered optical payloads for space and defense applications.

**Founder Name:** Sanjay Kumar

**Age of company:** 4 Years

**Tech Domain:** Imaging Tech

**Stage of startup:** Seed Stage

**Website:** <http://www.eonspacelabs.com>



## Satellize

Satellize is India's first private space company, specializing in building customized nanosatellites and offering satellite solutions for various sectors, including education, defense, agriculture, and logistics. They are one of the few companies globally to have successfully launched satellites aboard both SpaceX and ISRO rockets.

**Founder Name:** Asshar Farhan

**Age of company:** 8 Years

**Tech Domain:** Material Science

**Stage of startup:** Seed Stage

**Website:** <https://satellize.com/>



## TAKEME2SPACE

TakeMe2Space (TM2Space) provides affordable satellite infrastructure and AI-powered platforms like OrbitLab and OrbitView for running space experiments and capturing Earth imagery. They also offer CubeSat subsystems with radiation shielding to support extended orbital missions.

**Founder Name:** Ronak Kumar Samantray

**Age of company:** 2 Years

**Tech Domain:** Communications

**Stage of startup:** Venture Capital Stage

**Website:** <https://www.tm2.space/>



## Taramandal Technologies PVT LTD

Taramandal is developing APAC's first reusable orbital vehicle with in-space manufacturing and sustainable satellite subsystems—like self-deorbiting and anti-collision tech—for debris-free, net-zero orbits.

**Founder Name:** Vineel Judson

**Age of company:** 2 Years

**Tech Domain:** Material Science

**Stage of startup:** Pre-Seed Stage

**Website:** <https://taramandal.co.in/index.html>



## Domain : Aerospace

### Skanda Aerospace

Skanda Aerospace manufactures high-precision helicopter gears and gearboxes using advanced CNC machining and aerospace-grade materials. Their technology enables production of reliable, high-performance components for both domestic and global aviation markets.

**Founder Name:** Nimish Mehta

**Age of company:** 15 Years

**Tech Domain:** Material Science

**Stage of startup:** Venture Capital Stage

**Website:** <https://skandaaerospace.com/>



### Digilogic

Digilogic Systems provides automated test solutions for defense, aerospace, and industrial sectors, including radar simulators, actuator test systems, and satellite payload checkout systems. Their products leverage COTS hardware and custom software to ensure precise, reliable, and efficient testing.

**Founder Name:** J Madhusudhan Varma

**Age of company:** 18 Years

**Tech Domain:** AI/ML

**Stage of startup:** Venture Capital Stage

**Website:** <https://www.digilogicsystems.com/>



### Soaron

Soaron Aerospace Innovations is developing drone and robotic solutions to improve efficiency, safety, and productivity in high-rise construction projects. Their flagship product, Colorown, offers drone-based painting for tall structures, with additional solutions in development for automated cleaning, plastering, and crack repair.

**Founder Name:** Shariq Ahmed

**Age of company:** 6 Years

**Tech Domain:** AI/ML

**Stage of startup:** Venture Capital Stage

**Website:** <https://soaron.co/>



## Jeh Aerospace

Jeh Aerospace manufactures precision aerostructures and aero-engine components for commercial aircraft, leveraging robotics, IoT, and AI to streamline production. Their Hyderabad facility enables rapid, high-quality manufacturing while adhering to AS9100 and ISO 9001 standards.

**Founder Name:** Vishal Sanghav  
**Age of company:** 3 Years  
**Tech Domain:** Material Science  
**Stage of startup:** Venture Capital Stage  
**Website:** <https://www.jeh.aero/>



## Bluj Aerospace

Bluj Aero develops hydrogen-electric VTOL aircraft for sustainable regional air mobility, including the Bluj REACH cargo drone and the upcoming Bluj HOP passenger aircraft. Their technology enables quiet, efficient, and safe transport with advanced hydrogen-electric propulsion systems.

**Founder Name:** Maruthi Amardeep Sri Vatsavaya  
**Age of company:** 3 Years  
**Tech Domain:** Chemistry  
**Stage of startup:** Venture Capital Stage  
**Website:** <https://blujaero.com/>



## Arka Aerospace

Arka Aerospace develops advanced UAVs for defense, agriculture, and media, including the reconfigurable Elasticopter and autonomous X-Terminator. Their technology focuses on adaptable payloads and precision operations to enhance efficiency across industries.

**Founder Name:** Suraj Bonagiri  
**Age of company:** 4 Years  
**Tech Domain:** AI/ML  
**Stage of startup:** Angel Stage  
**Website:** <https://arkaaerospace.com/>



## Vedasya

Vedasya Engineering specializes in the design, manufacturing, and testing of advanced composite components, including hydrogen storage tanks rated for 700 bar pressure. Their expertise supports aerospace applications, providing lightweight and high-strength materials essential for spacecraft and satellite structures.

**Founder Name:** Abhishek Pulicherla

**Age of company:** 3 Years

**Tech Domain:** Material Science

**Stage of startup:** Angel Stage

**Website:** <https://www.vedasyaengg.in/>



## Adyaha Ways Pvt Ltd

Adya Haways is an aerospace and defense engineering firm providing R&D, design, and manufacturing solutions. Their technologies, including CFD, FEA, and electric motor analysis, support aerospace, defense, and advanced transportation applications.

**Founder Name:** Sunil Maurya

**Age of company:** 6 Years

**Tech Domain:** Material Science

**Stage of startup:** Pre-Seed Stage

**Website:** <https://www.adyahaways.in/>



## Azista Aerospace

Azista Aerospace develops and mass-produces small satellites and spaceborne systems, including their flagship ABA First Runner (AFR-1) for Earth observation. Their technology supports applications in agriculture, urban planning, and environmental monitoring.

**Founder Name:** Ravi Chandra Reddy Vaka

**Age of company:** 11 Years

**Tech Domain:** Material Science

**Stage of startup:** Seed Stage

**Website:** <https://www.azistaerospace.com/>



## CONSTELLI

Constelli Signals is a startup specializing in advanced signal processing solutions for defense and aerospace sectors. Their product portfolio includes radar and electronic warfare simulators, telemetry systems, and software-defined radio technologies.

**Founder Name:** Satya Gopal

**Age of company:** 8 Years

**Tech Domain:** Communications

**Stage of startup:** Venture Capital Stage

**Website:** <https://www.constelli.com/>



## Imagine XR

Imagine develops AI and XR powered solutions for aerospace MRO, including smart-glass based inspection and SOP compliance with OEMs like GE and Rolls-Royce. The company also builds digital twins for engine design reviews and immersive VR/AR training for ground staff in virtual airports.

**Founder Name:** Hemanth Satyanarayana

**Age of company:** 9 Years

**Tech Domain:** AI/ML

**Stage of startup:** Growth Stage

**Website:** <https://www.imagine.in/>



## ADTCore

Predicta by ADTCore Pvt. Ltd. is an AI-powered prescriptive maintenance platform for aerospace. It predicts component failures using real-time data and recommends optimal preventive actions.

**Founder Name:** Geetisri Baishya

**Age of company:** 4 Years

**Tech Domain:** AI/ML

**Stage of startup:** Seed Stage

**Website:** <https://www.adtcore.com/>



## Raksyon

Raksyon Pvt Ltd specializes in smart manufacturing of advanced composite structures—leveraging high-fidelity simulations and automated processes to deliver lightweight, durable systems for aerospace, defense, and energy sectors.

**Founder Name:** Shiva Goutham Kumar

**Age of company:** <1 Year

**Tech Domain:** Material Science

**Stage of startup:** Seed Stage

**Website:** <https://site-lm2jz7ugh.godaddysites.com/>



## Cosmoserve Space

CosmoServ Space offers cost-effective, in-orbit servicing with its dual spacecraft—Reviver and Mothercraft—designed for satellite refueling and active End-of-Life management to sustainably reduce orbital debris.

**Founder Name:** Chiranjeevi Phanindra

**Age of company:** <1 Year

**Tech Domain:** Material Science

**Stage of startup:** Pre-Seed Stage

**Website:** <https://cosmoserv.space/>



## Domain : Geospatial

### **CoralComp**

CoralComp is an aerospace startup focused on enhancing aviation safety through real-time weather analysis and prediction tools. Their solutions aim to prevent air crashes caused by extreme weather conditions such as microbursts, lightning, thunderstorms, and hailstorms.

**Founder Name:** Bakthiaruddin Ahmed

**Age of company:** 8 Years

**Tech Domain:** AI/ML

**Stage of startup:** Pre-Seed Stage

**Website:** <https://www.coralcomp.com/>



### **Kaiinos**

Kaiinos builds open-standards geospatial and climate-stack intelligence platforms—leveraging GIS, spatial databases, AI-powered location analytics, and real-time monitoring to enable data-driven environmental, infrastructure, and conservation insights.

**Founder Name:** Gowtham Gollapalli

**Age of company:** 15 Years

**Tech Domain:** AI/ML

**Stage of startup:** Venture Capital Stage

**Website:** <https://www.kaiinos.com/>



### **Polygon Geospatial**

Polygon Geospatial specializes in delivering high-precision, data-driven insights by seamlessly integrating drone technology, satellite imagery, GIS, and AI, enabling smarter decision-making across industries.

**Founder Name:** Rahul Pinnamaneni

**Age of company:** 3 Years

**Tech Domain:** AI/ML

**Stage of startup:** Seed Stage

**Website:** <https://polygongeo.com/>



## Domain : Academic Research Groups

### **Lab for Spatial Informatics @ IITH**

Lab for Spatial Informatics (LSI) at IIT Hyderabad is a pioneering research center specializing in geospatial science, remote sensing, and spatial data sciences. Under the leadership of Prof. K.S. Rajan, LSI integrates technologies like satellite imagery, drone-based LiDAR, IoT, and GIS to model and simulate land, water, and environmental changes.

**Head of the Lab:** Prof. KS Rajan

**Age of company:** >15 Years

**Tech Domain:** Geospatial Science, Remote Sensing, Geo-AI.

**Website:** <https://lsi.iit.ac.in/>



### **Astrophysics and Cosmology @IITH**

The Astrophysics and Cosmology (AC) group at the Department of Physics, IIT Hyderabad conducts research across all length scales, from the Solar System to cosmological distances. Their primary focus areas include solar corona and wind, black holes, micro-quasars, active galactic nuclei, pulsars, gamma-ray bursts, space plasmas, dark matter and dark energy, galaxy clusters and groups, and the Cosmic Microwave Background.

**Head of the Lab:** Prof. Shantanu Desai

**Age of company:** >15 Years

**Tech Domain:** Astrophysics, Cosmology, High-Energy Physics, Data Science.

**Website:** <https://physics.iith.ac.in/research-areas/ac.html>

A space shuttle is shown launching from the Earth's surface, ascending into space. The Earth's horizon is visible in the background, with a bright sun or starburst effect behind it. The shuttle is emitting a large plume of white smoke and fire from its engines. The overall scene is set against a dark, starry space background.

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