

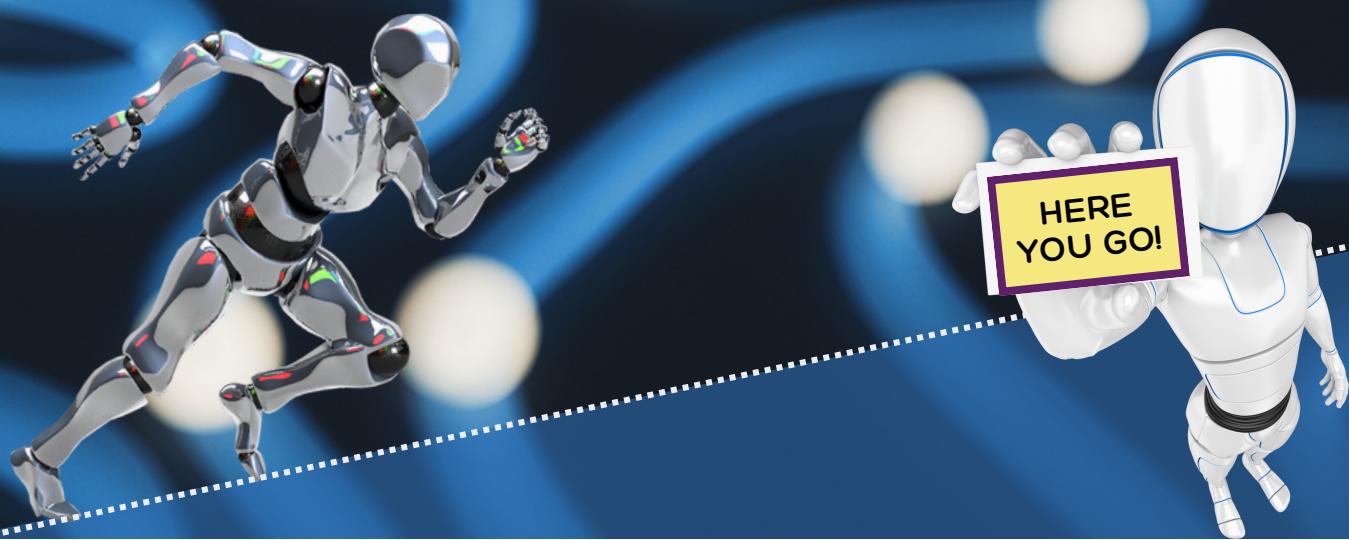
PLACEMENT BROCHURE

2022-2023



भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

ARTIFICIAL INTELLIGENCE



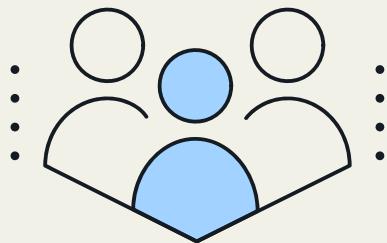
ABOUT AI DEPARTMENT

- The Department of Artificial Intelligence (AI) at IIT-Hyderabad was established in 2019 to offer academic programs and mold students with a holistic understanding of the theory and practice of Artificial Intelligence, as well as to create a complete ecosystem for both academic practice and research in AI.
- The mission of the department is to “Enable and facilitate students to become leaders in the AI industry and academia nationally and internationally; as well as to meet the pressing demands of the country in the various subareas and applications of AI”.
- The AI department launched the BTech in AI program in 2019, the first such initiative in India, and the third in the world (to our knowledge) after MIT and CMU.
- Department Website: <http://ai.iith.ac.in/>





650 TFHPC facility under the National Supercomputing Mission



WHY HIRE FROM AI ?

- First in India and third in the world to provide B Tech, M Tech, and PhD in AI
- Curriculum based on both theory and application
- Trained on wide range of AI subfields including Computer Vision, NLP and RL
- State-of-the-art research
- Students working under world renowned faculty with publications in top tier conferences and journals
- Collaborative research with leaders of AI
- Academically cross-trained students, ensuring grip over fundamentals of Mathematics, CS, and EE subjects
- Mixed baggage of the best freshers and experienced

FACULTY

The AI department consists of ~29 faculty working in various areas of AI including

- Machine learning
- Computer vision
- Speech understanding
- Natural language processing
- Social media analysis
- Robotics
- Signal processing
- High-dimensional data analysis
- Distributed AI
- Compilers for AI
- Embedded AI
- AI and IoT
- AI and blockchains
- AI and wireless networks
- AI solutions for healthcare
- Smart transport
- Security
- Surveillance
- Agriculture
- Disaster management
- Fraud analytics
- E-commerce
- Astronomy and
- Aerospace applications



Maunendra Desarkar
(Head of Department)



Vineeth N B



Sumohana S.
Channappayya



Srijith P.K



Manish Singh



Amit Acharyya



C Krishna Mohan



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Aditya T Siripuram

Abhinav Kumar



P. Rajalakshmi



Ganesh Ghalme **Challa Subrahmanyasastry**



Soumya Jana



Sathya Peri



J. Balasubramaniam



**Sri Ram Murty
Kdoukula**



Shantanu Desai



R. Prasanth Kumar



GVV Sharma



Lakshmi Prasad Natarajan



Mohan Raghavan



SaiDhiraj Amuru



C. P. Vyasarayani



Nixon Patel



S. Suryakumar



M. V. Panduranga Rao



Kishalay Mitra



Ketan Detroja

Curriculum

- Foundations
 - Linear Algebra
 - Probability and Random Variables
 - Advance Data Structures and Algorithms
 - Foundations of Machine Learning
- Core AI and ML
 - Deep Learning
 - Reinforcement Learning
 - Intro to Statistical Learning theory
 - Kernel Methods
 - Sequence Models
 - Linear Optimization
 - Convex Optimization
 - Information Theory and Coding
 - Applied Statistics
- Language Technologies
 - Natural Language Processing
 - Information Retrieval
 - Text Processing
 - Data Mining
- Speech and Vision
 - Computer Vision
 - Speech Systems
 - Image and Video Processing
 - Surveillance Video Analytics
 - Video Content Analysis

Academic Programme

- B.Tech
- B.Tech Minor
- B.Tech Major
- MTech (2-year)
- MTech by Research (3-year)
- PhD
- Professional Program in AI and Emerging Technologies (5 week program)

Laboratory Facilities

The computing facilities at the AI Centre includes **NVIDIA DGX-1s** (3 of them) and **NVIDIA DGX-2s** (2 of them) which are widely considered **AI supercomputers** along with other GPU-based servers for cutting-edge research.

Key Highlights

- Establishment of India's first NVAITC (NVIDIA AI Technology Center)
- Establishment of TiHAN - Technology Innovation Hub on Autonomous Navigation and Data Acquisition Systems
- Led the Artificial Intelligence and Machine Learning (AIML) vertical along with IISc at VAIBHAV Summit 2020
- Researchers @AI, IITH developed an Artificial Intelligence-powered COVID-19 Test Kit
- AI startups "graduated" through the first cohort of AISEA@IITH
- MoU with Government of Telangana, Oppo-India and Jeju Technopark-Korea for research collaborations
- Actively engaged in Telangana AI Mission with different initiatives
- Organizing member of top tier conferences - ACML '22 and ICASSP '25
- Department faculty and students have received multiple awards including but not limited to Google Research Scholar Award and Prime Minister's Research Fellowship
- **Publication in top AI/ML conferences including CVPR, NeurIPS, ICML, IEEE IGARSS, ACL, ICASSP, IEEE Transactions on Image Processing, IEEE Transactions on Multimedia, Workshop AISTATS, AAAI, ACM WebConf, NCC, WACV, IJCAI, RecSys, ICIP, ECCV, UMAP, ASONAM & many more.**

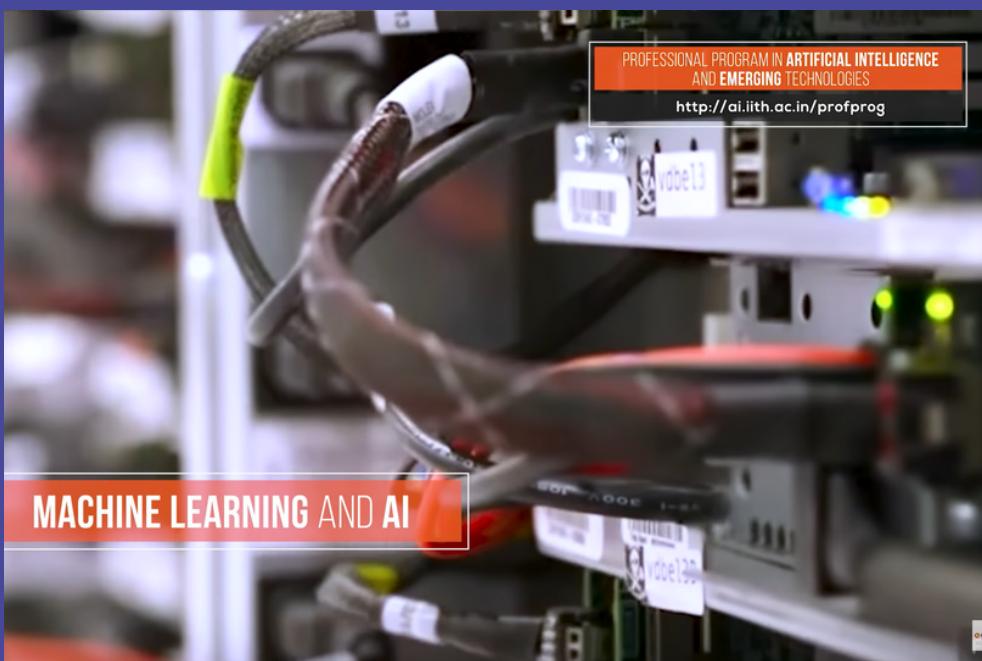
Research Areas

- Continual Learning
- Voice Assistant
- Graph Neural Network
- Generative Modelling
- Speech Systems and NLP
- Robotics and Computer vision
- Recommendation systems
- Bayesian learning
- Text translation
- Time series data modelling
- Explainable AI
- Text Summarization

Research Labs

- WiCon
- Hyundai Mobis
- WiNeT
- TiHAN
- Lfovия
- WiSig
- SIP

AI Research Center & Infrastructure



PAST RECRUITERS

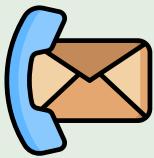
Microsoft	Google
Adobe	Goldman Sachs
Intel Labs	Samsung
IBM	Amazon
Oracle	Qualcomm
Oppo	Philips
Nvidia	BNY Mellon
American Express	Dell
Salesforce	Mathworks
Rakuten	Accenture
Fujitsu	Bosch
Honeywell	Airtel
AMD	Toshiba
Yokogawa	Yahoo Labs
Legato	ServiceNow
eClerx	Indeed

Collaboration

Faculty in the AI department have close collaborations with various industry, academic and government organizations on AI research including DRDO, CAIR, University of Tokyo, RIKEN AIP, Microsoft Research, IBM Research, NVIDIA, Accenture, Honeywell, Adobe, L V Prasad Eye Institute, and many others.

DRDO	Microsoft
IBM Research	Adobe
HYUNDAI	SUZUKI
Accenture	Honeywell
NASSCOM	tsmc
Nvidia	Xilinx
The University of Tokyo	L V Prasad Institute
Govt. of Telangana	Center for Advance Intelligence & Project

Contact Us



HOW TO PARTICIPATE

For detailed information and registration kindly visit the Recruiters Portal of Office of Career Services(OCS), IIT Hyderabad. The OCS Placement team will extend all the possible assistance to your organization to conduct the recruitment process.

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