

PhD Admission Brochure

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भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

**Department of Artificial Intelligence
IIT Hyderabad**

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Overview:

The Department of AI is a newly launched department at IIT Hyderabad. Considering the interdisciplinary nature of AI, a separate department helps in creating a complete ecosystem for AI Academics and Research at IIT Hyderabad. The department will offer B.Tech, M.Tech. and PhD programs (full time and part time), and plans to offer a variety of Minor Programs in AI. The emergence of the department is the consequence of the heavy demand from the industry on artificial intelligence and data analytics, and the need to tackle the many fundamental and foundational research problems arising in a rapidly evolving field. The department's mission is to

1. Train students to have a sound understanding of the fundamentals of the theory and practise of Artificial Intelligence and Machine Learning.
2. Enable students to become leaders in the industry and academia nationally and internationally.
3. Meet the pressing demands of the nation in the areas of Artificial Intelligence and Machine Learning.

The Department of Artificial Intelligence has a sizable number of highly dedicated and dynamic faculty members, with a wide variety of expertise. Currently there are 22 faculty members affiliated with the AI department. Candidates can discover the profiles and teaching/research areas of different faculty members by visiting

<https://ai.iith.ac.in/faculty.html>.

The PhD students will be provided with excellent laboratory facilities that they can access at any time. The laboratories are equipped with state-of-the-art facilities including software and hardware (including high-end GPU servers). All the laboratories are provided with internet connectivity.

The Department of AI seeks talented and dedicated PhD students to develop highly skilled human resources who can contribute to modern and cutting edge research and industrial demand in AI.

Research Areas

The following is a broad collection of AI related research areas at IIT Hyderabad.

Deep Learning	Explainable Machine Learning
Generative Models	Autonomous Vehicles

Computer Vision	Video Quality Assessment
Speech Systems	AI for Agriculture
Bayesian Learning	Social Media and Text Analysis
Robotics	Recommendation Systems and Data Mining
ML in Astronomy	Inference Algorithms
Graphical Models	Big Data Analysis
Computer Architectures for AI	AI and Internet of Things
AI and High Performance Computing	Natural Language Processing

Eligibility Criteria for Application to the PhD program:

The candidate must have earned **MTech/Equivalent Degree in CS/ECE/EE or related areas in Artificial Intelligence**. The applicant must have already earned the Master's degree, or should at least be in the final year of the respective program. In the latter case, it would be assumed that the candidate will be able to complete the degree by the time of admission into the PhD program.

The Department of AI also considers **Direct-Phd admission**, where the students with Bachelor's degree can apply. Eligibility criteria is BTech/BE/MSc/Equivalent Degree in any discipline, and have a valid GATE score in CS/EC/EE/MA/ST. B.Tech from IITs in any engineering discipline with CGPA 8 or above can apply without a valid GATE score.

Part time PhD program have the same eligibility criteria listed above and in addition the candidate must be employed with a relevant employer at the time of application and admission.

Selection Process:

For admission to the program, there will be a preliminary shortlisting depending upon the academic background. Candidates who satisfy the shortlisting criteria need to appear for a written test and/or an interview. The shortlisting criteria could be higher than the eligibility criteria. In addition, the department has the right not to select anybody if no appropriate candidates are found.

Application Process:

IIT Hyderabad has a centralized online application portal for the PhD admission. Candidates are requested to visit <https://www.iith.ac.in/phdadmissions/> for the application format and the submission link.

For other related information, such as last date of application, shortlist announcement, written test and interview dates, please visit <https://ai.iith.ac.in/phd-admissions.html>

For any query, kindly write to ai_office@iith.ac.in