



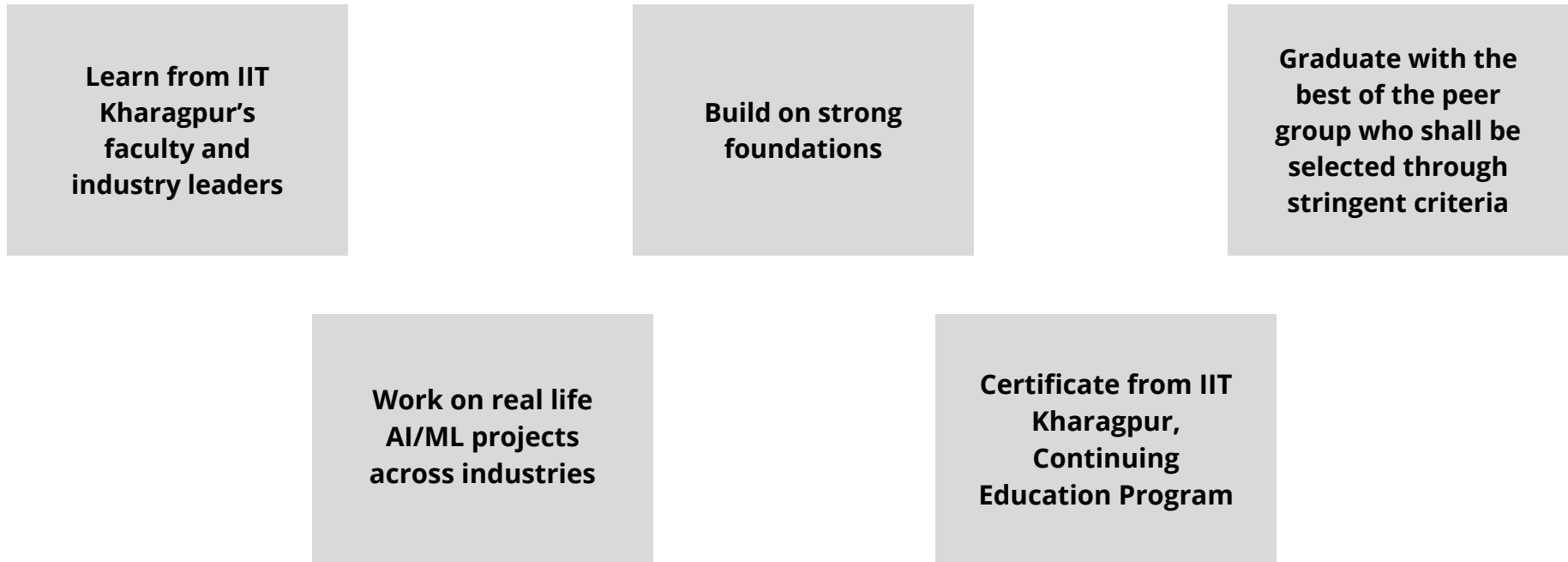
**IIT Kharagpur  
Certificate Course**

**Foundations Of  
Artificial Intelligence And Machine Learning**

Artificial intelligence (AI) is the ability of a computer program or machine to think and learn. The current decade has been a landmark for AI. It has given us self-driving cars, practical speech recognition, effective web search and many more interesting applications.

Tomorrow's tech jobs are unarguably going to be in Artificial Intelligence and Machine Learning (ML). Upgrading your skills in AI and ML has become an imperative for future professional development.

# What to expect?



## Eligibility

- Good knowledge of at least one programming language with good experience and proficiency.
- Good mathematical maturity having done courses in basic linear algebra, calculus and probability at the college level.
- B.Tech. or B.E. in any Engineering Stream or M.Sc./ MCA with mathematics and programming at the graduate level.
- Working professionals/ final year students are eligible to apply.

# What will you learn?

16 course modules which will be each of 12 hours.

## Foundations

- Linear Algebra
- Introduction to Probability
- Data Structures & Algorithms
- Artificial Intelligence

## Methods

- Statistics and Data Analytics
- Machine Learning (Module I, II, III)
- Scalable Data Mining
- Deep Learning

## Tools

- Python for Data Science
- Data Preparation and Visualization
- Introduction to Libraries

## Thematic Areas

- Information Retrieval & Web Search
- Text and Language Processing
- Image and Video Processing

**Capstone Project** Work on cutting edge AI Projects

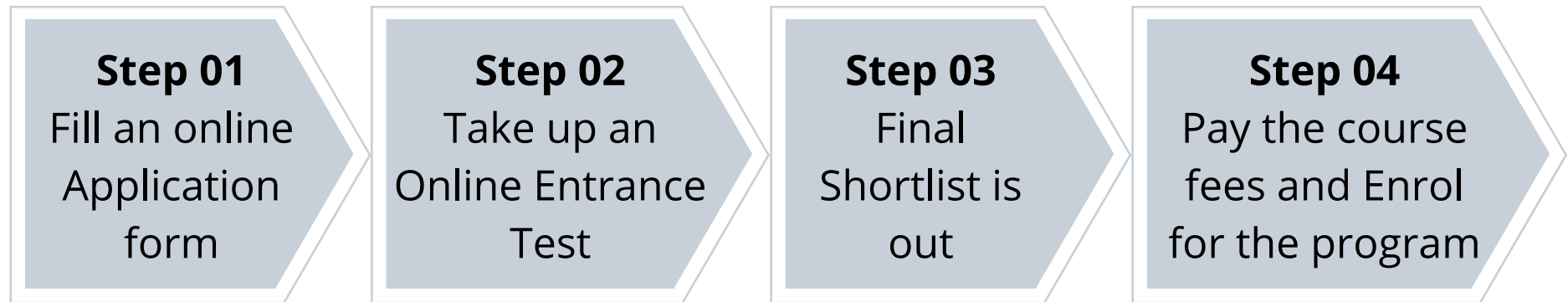
## Program Highlights

- 6 months intensive program
- Weekend classes
- Live, interactive classroom sessions
- In-person contact sessions with faculty
- Rigorous module-wise assessment
- Industry guest lectures
- Capstone Project with industry mentors
- Guided Mentorship
- Certification based on successful completion of modules

## **Learn from seasoned AI experts.**

- India's leading AI teaching and research group with decades of experience.
- Industry experts from topmost tech companies like Microsoft Research, Amazon, Bell Labs, TCS, Cadence Systems, Mentor graphics, Yahoo! Etc.

## How to join? | Locations of Classrooms | Program Fees



### Important Dates

- Start of Application **10 February, 2020**
- Online Entrance Test Round 1 **1 March, 2020**
- Online Entrance Test Round 2 **8 March, 2020**
- Commencement of Classes (Tentative) **April 2020**

**Locations :** Bengaluru, Hyderabad, Kolkata, Kharagpur, Gurgaon (Tentative), Pune (Tentative)

### Program Fees

Rs 4,00,000 only (inclusive of GST).

Program Fee is non-refundable, non-transferable under any circumstances. Scholarships will be made available for selected few candidates based upon performance in entrance test.

## Mode of Teaching

**Format:** There are 16 modules in the course. Each module comprises of 12 hours of live interactive sessions (relayed to centres from IIT Kharagpur).

### Delivery:

- The program will be administered in different centres across 4 cities.
- The classes will be conducted in the weekends (Saturday and Sunday).
- Timings shall be 9 AM to 4 PM on each day.
- The lectures will be given from one of the centres and will be delivered live over video conferencing with facilities of interaction with the students.
- There may be periodic contact between the students and the faculty at the different centres for discussion and doubt clearing.
- The classes will be recorded and made available to the registered students for viewing after the lecture. Course material will be made available to the students.
- Forums will be used for discussion among the students, faculty and TAs for each course module.

**Venue:** The program will be conducted at 6 cities (Bengaluru, Hyderabad, Kolkata, Kharagpur, Gurgaon and Pune).

## **Contact**

For more information, refer <http://www.ai.iitkgp.ac.in/outreach>

Address your queries at [outreach@cai.iitkgp.ac.in](mailto:outreach@cai.iitkgp.ac.in)

Reach out to +91-9686523610, +91-9840446609.