PGP in
Artificial Intelligence and Data Science

One-year, Full-time Residential Programme

Course at a glance

Be at the forefront of the evolving AI & DS landscape

The programme explores the fascinating realm of emerging AI technologies that are reshaping industries, revolutionizing decision-making, and transforming the way we interact with data. It provides a comprehensive academic foundation in AI and Data Science concepts, preparing professionals for the dynamic future ahead.

Who is it for?

- Current/ Aspiring Data, Software, and IT professionals
- Technology Professionals and Consultants
- Entrepreneurs with aspirations in the AI space

**Learn more about programme
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The new age Curriculum

This postgraduate programme has a comprehensive and rigorous curriculum that covers foundation to advanced courses that trains future-ready full-stack data scientists and AI architects.

Foundation Courses

- Mathematical Foundations (Probability, Statistics, Linear Algebra)
- Python Programming
- Data Structures and Algorithms
- Databases and Data Warehouses
- Optimization for Business
- Data Visualization
- Time Series Analysis

Core Courses

- Bigdata Engineering
- Machine Learning (Supervised and Unsupervised Learning)
- Natural Language Processing
- Classical Approaches to Modern AI in Computer Vision
- Deep Learning
- Responsible AI
- Gen AI & Prompt Engineering

Advanced Courses

- Advance topics in Machine Learning
- Advance topics in Bigdata Engineering
- Large Language Modules (LLMs)
- Machine Learning Operations (ML Ops)
- Human-Computer Interface
- Digital Business Transformation using AI

Tools & Softwares

20+ programming and tools are integrated into the curriculum: Python (libraries), GITHub, Linux, My SQL, Tableau, Apache Spark, Apache Flume, Hadoop, Hive, Mongo DB, Tensor Flow, PyTorch, Open CV, AWS, Azure, MapReduce.

AI for X (Case Studies)

A lecture series organized throughout the year on case studies from the Industry, Society and Business Functions, where students learn how AI and Data Science is applied across various verticals.

Experiential Learning

We lay strong emphasis on providing you a well-rounded higher education, rooted in practical exposure through:

- **Study Abroad Module:** 2-week international immersion with academic, industrial and cultural exposure at a partner foreign university
- **Internships:** 8-week projects at leading corporate partners offering diverse business experiences
- **Capstone Projects:** Projects mentored by industry veterans to work on real business challenges
- **Industry Interactions:** Talk series and case studies for AI applications by Industry leaders and subject matter experts in relevant domains

Our Faculty

Our faculty includes a diverse mix of distinguished academics from top international and Indian universities, along with experienced industry practitioners, providing students with both theoretical knowledge and practical insights. Some of our faculty members include:

Dr. Shailesh Kumar
Chief Data Scientist,
Center of Excellence in AI/ML,
Reliance Jio, India

Dr. Larry Birnbaum
Professor, Computer Science,
Northwestern University, USA

Dr. Arindam Banerjee
Founder Professor, Department of
Computer Science, University of
Illinois Urbana-Champaign, USA

Dr. Vishnu Nagadevara
Former Professor and Dean,
Indian Institute of Management
Bangalore, India

Dr. Gaurav Aggarwal
Vice President, Special Projects AI/ML,
Reliance Jio, India
Ex-Research Scientist, Google, India

Dr. Vishal Lala
Professor of Marketing,
Lubin School of Business,
PACE University, USA

Dr. Dwarikanath Mahapatra
Senior Research Scientist,
Inception Institute of Artificial
Intelligence, Abu Dhabi, UAE

Dr. Khyathi Chandu
Research Scientist,
Allen Institute of AI, USA

Dr. Sudipta Roy
Associate Professor,
Artificial Intelligence & Data Science,
Jio Institute, India

Mr. Manaranjan Pradhan
Founder & Director,
AwesomeStats Consulting Pvt Ltd, India

Mr. Sray Aggarwal
Principal Consultant,
Fractal AI, UK

Mr. Anmol Karnwal
Applied AI Scientist,
Microsoft, India

Potential Roles

Our programme prepares students for numerous roles in this dynamic field, catering to diverse interests and enabling students to find their niche.

 Data Scientist
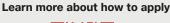
 AI/ML Engineer

 ML Ops & Data Ops

 Generative AI

 Consultant (Business, Management & Tech)

Eligibility

✓ A four-year undergraduate degree or its equivalent (a postgraduate degree if the undergraduate degree is of three years) in the field of Engineering/Science/Mathematics and Statistics with minimum 50 per cent or equivalent CGPA.

✓ A strong foundation in Mathematics, Statistics and Computer Science along with programming experience.

✓ A valid CAT/GATE/GMAT/GRE or Jio Institute Entrance Test (JET) score.

✓ Preference shall be given to candidates with relevant work experience.

Connect with us:

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Email: admissions@jioinstitute.edu.in
Campus: Jio Institute, Sector 4, Ulwe, Navi Mumbai, India

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