UPES ONLINE
UNIVERSITY OF TOMORROW

upesonline.ac.in



MCA with Specialisation in
Artificial Intelligence and Machine Learning

A BETTER TOMORROW BEGINS TODAY

ADMISSIONS OPEN



ABOUT UPES ONLINE

UPES Online, the digital learning vertical of UPES, is aimed at empowering professionals looking to advance in their careers, students aspiring to upskill, and individuals striving to achieve personal goals. It offers a range of flexible, industry-relevant programs designed to equip learners with the skills needed to thrive in today's dynamic job market. UPES Online offers MBA, MCA, BBA, and BCA degrees, all enhanced with industry masterclasses and immersive experiences, maintaining the same level of academic rigour as traditional in-person programs. Additionally, the platform provides intensive 10-month Postgraduate Certification Programs (PGCP) in fields such as Oil and Gas, Renewable Energy, and Industrial Safety, with the integration of advanced technologies like AI, Data Science, and Cloud Computing into the curriculum.

UPES Online is an extension of UPES, a UGC-entitled, multidisciplinary, not-for-profit, research-driven university, committed to academic excellence, exemplary student outcomes, and social impact. As the 'University of Tomorrow', it pioneers transformative education, shaping learners into changemakers. With seven schools, including Computer Science, Engineering, Health Sciences and Technology, Design, Business, Law, Liberal Studies and Media, UPES provides industry-ready education to over 16,000+ students at its campuses in Dehradun.

As per the National Institutional Ranking Framework (NIRF) 2024, UPES has been ranked 46, with a rank of 42 in engineering and a rank of 41 in management. In addition to this, the university has been ranked the No.1 private university in academic reputation in India by the QS World University Rankings 2025 and is among the top 2% of universities in the world. UPES has also been accredited by NAAC with a grade 'A' and has received 5 stars on Employability (placements), by globally acclaimed QS Rating. The university has had 100% placements over the last five years. Forty-Six (46) faculty members of UPES are among the world's top 2% researchers as per Stanford University.



WHY UPES ONLINE?

RANKED 46
IN INDIA
nirf

NO.1 PRIVATE UNIVERSITY
IN ACADEMIC REPUTATION
QS WORLD UNIVERSITY RANKINGS

NAAC A
ACCREDITED
NAAC

UGC Entitled

45% Average Salary Hike* (As per Alumni survey)

750+ Recruiters

12,000+ Career Transitions

Esteemed Faculty from **IITs, IIMs and Ivy League**

Exclusive Leadership Courses

Access to 22,000+ Alumni Community

ABOUT THE PROGRAM

The global artificial intelligence market is expected to grow at a staggering CAGR of 37.3%, reaching $1.81 trillion by 2030, fueled by its transformative impact on industries like healthcare, automotive, retail, and finance. With AI-driven innovations reshaping businesses and processes, the demand for professionals skilled in AI and machine learning is at an all-time high, offering some of the most rewarding career opportunities.

UPES Online's 2-year MCA in Artificial Intelligence and Machine Learning prepares students with expertise in deep learning, natural language processing (NLP), computer vision, and AI model deployment. The program emphasizes practical skills in developing AI solutions, leveraging neural networks, and implementing scalable machine learning algorithms. With a curriculum designed to meet the needs of AI-driven industries, graduates are empowered to excel in roles like AI Engineer, Data Scientist, and Machine Learning Specialist, contributing to the future of intelligent systems.

KEY HIGHLIGHTS OF THE PROGRAM



Over 100 hours of self-paced tutorial videos featuring industry-oriented examples and case-study-based learning to enhance practical understanding.



Weekend live sessions conducted by seasoned academicians for in-depth learning.



Masterclasses and webinars by industry practitioners to bridge the gap between theory and practice.



A dedicated student support manager is assigned to guide and assist you throughout your academic journey.



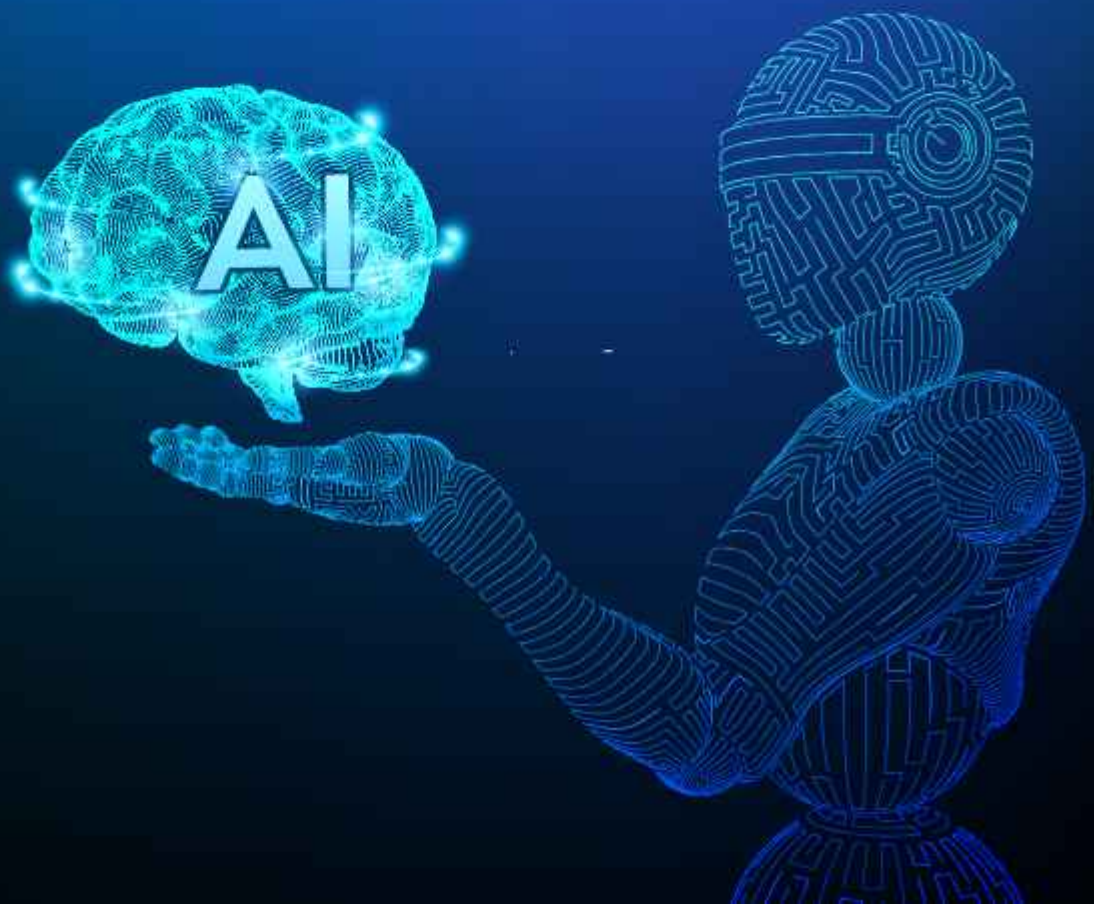
Networking opportunities with peers to expand your professional connections and industry outreach.

in Learning

Complimentary access to LinkedIn career essential programs to enhance your job readiness and career prospects.

ELIGIBILITY

- Passed any graduation degree (e.g.: B.E. / B.Tech./ B.Sc / B.Com. / B.A./ B. Voc./ BCA etc.,) preferably with Mathematics at 10+2 level or at Graduation level. Obtained at least 50% marks in the qualifying examination.
- For candidates with Non-Mathematics /IT/Computer Science background Candidates who have not studied Mathematics /IT/Computer Science in XII std. / Graduation, will be required to complete a Basic Mathematics/Basic Computer Information Systems course, respectively. Final admission will be subject to qualifying the aforesaid course within 6 weeks of provisional admission.
- Relaxation in Eligibility Criteria for Candidates with Work Experience
  Candidates with minimum 2 years of work experience must have Bachelor's degree or equivalent in any discipline from a recognized university/institution with minimum 45 percent aggregate marks.



LEARNING OUTCOMES

- Develop and implement efficient algorithms using advanced programming languages like Python, Java, and C++ while leveraging data structures to address complex computational challenges.
- Analyse and apply artificial intelligence and machine learning concepts, including neural networks, deep learning, and natural language processing, to solve domain-specific problems in diverse industries.
- Utilise tools and frameworks such as web technologies, advanced Java programming, and object-orientated design to create scalable and secure web and mobile applications.
- Employ mathematical and statistical foundations, such as discrete mathematics, data analysis, and machine learning techniques, to design and optimise AI/ML models with high accuracy.
- Integrate emerging technologies like AR/VR, pattern recognition, and Android development into intelligent systems while adhering to ethical guidelines and ensuring the privacy, security, and fairness of AI solutions.

PROGRAM FEES

Indian Students

₹1,70,000

Duration

24 Months

For FAQs - Visit upesonline.ac.in

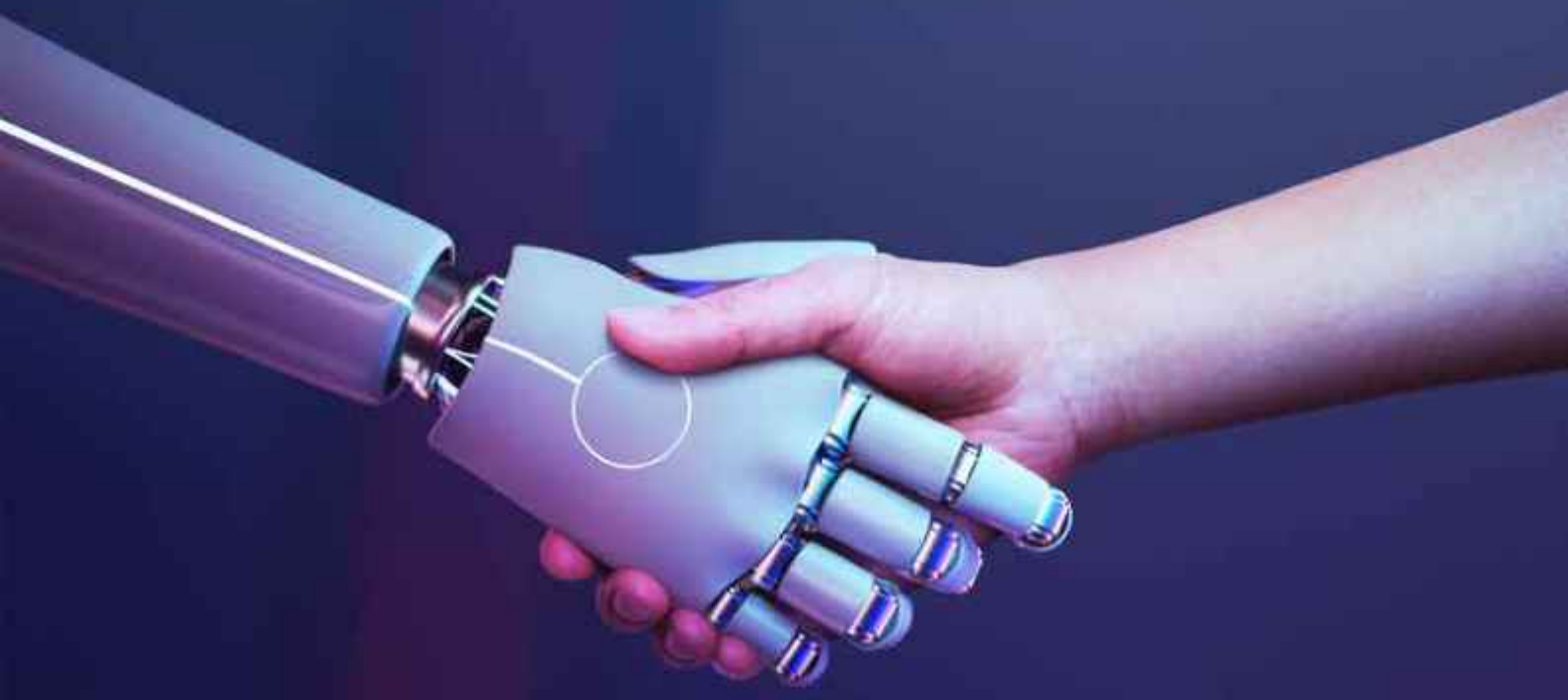


CAREER PROSPECTS

Entry-Level Artificial Intelligence and Machine Learning Roles:
At the entry level, AI/ML professionals focus on foundational tasks like data preprocessing, building simple models, and analyzing data. They work with basic machine learning algorithms and are responsible for cleaning data and extracting insights. Roles at this stage include Junior Data Scientist, Machine Learning Engineer, and Data Analyst.

Mid-Level Artificial Intelligence and Machine Learning Roles:
Mid-level AI/ML professionals handle more complex tasks such as developing scalable models, implementing advanced algorithms, and deploying models into production. They lead smaller projects, collaborate with cross-functional teams, and optimize models for real-world applications. Roles include Data Scientist, AI Engineer, and Machine Learning Specialist.

Experienced-Level Artificial Intelligence and Machine Learning Roles:
Experienced AI/ML professionals focus on leadership and innovation, overseeing complex AI systems and driving strategic AI initiatives across the organization. They design AI systems, lead teams, and ensure machine learning solutions meet business objectives. Roles at this stage include AI Architect, Lead Data Scientist, and Chief AI Officer.



CURRICULUM

Semester 1

- Advance Python Programming
- Data Base Management Systems
- Discrete Mathematics
- Object Oriented Programming using C++
- Advance Data Structures
- AI for everyone

Semester 2

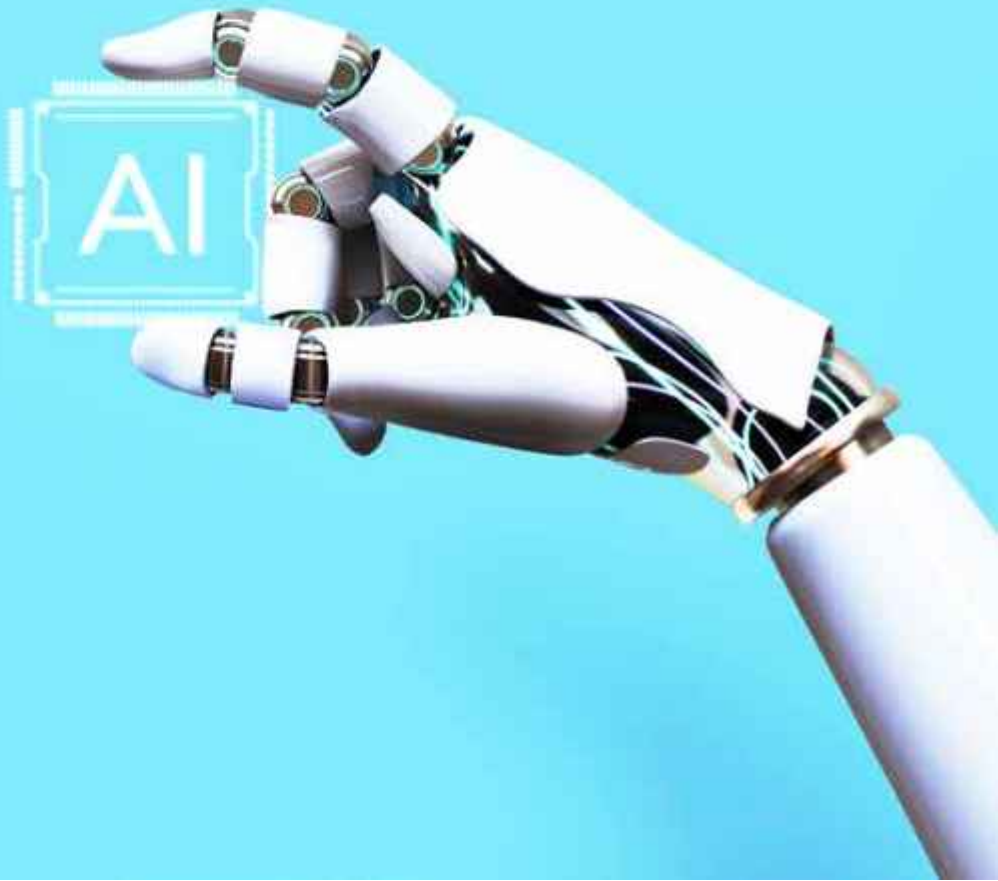
- Web Technologies
- Operating Systems
- Design and Analysis of Algorithm
- Java Programming
- Applied Machine Learning
- Computer Graphics

Semester 3

- Object-Oriented Analysis and Design Using UML
- Computer Networks
- Advanced Java Programming
- Software Engineering and Project Management
- AR/VR Development
- Deep Learning

Semester 4

- Project Dissertation
- Android Application Development
- Pattern and Visual Recognition
- Computational Linguistics and Natural Language Processing



CAREER SERVICES

Our comprehensive career services guarantee your career preparedness and employability for the professional world.

- Career Orientation
- LinkedIn/Resume building guidance
- Mentorship by industry experts
- Interview preparation

RECRUITERS

amazon

Coca-Cola

mahindra

KPMG

TATA

TATA POWER

LARSEN & TOUBRO

Adecco

monolith

Amul

kinnect



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