

BSc – AI & MACHINE LEARNING

AN UNDERGRADUATE COURSE BY AURA GLOBAL BUSINESS SCHOOL

A FUTURE-READY UNDERGRADUATE AI PROGRAMME WITH STRONG COMPUTER SCIENCE FOUNDATIONS, HANDS-ON ML/DL DEPTH, AND REAL-WORLD APPLICATION FOCUS.

FEBRUARY 2025



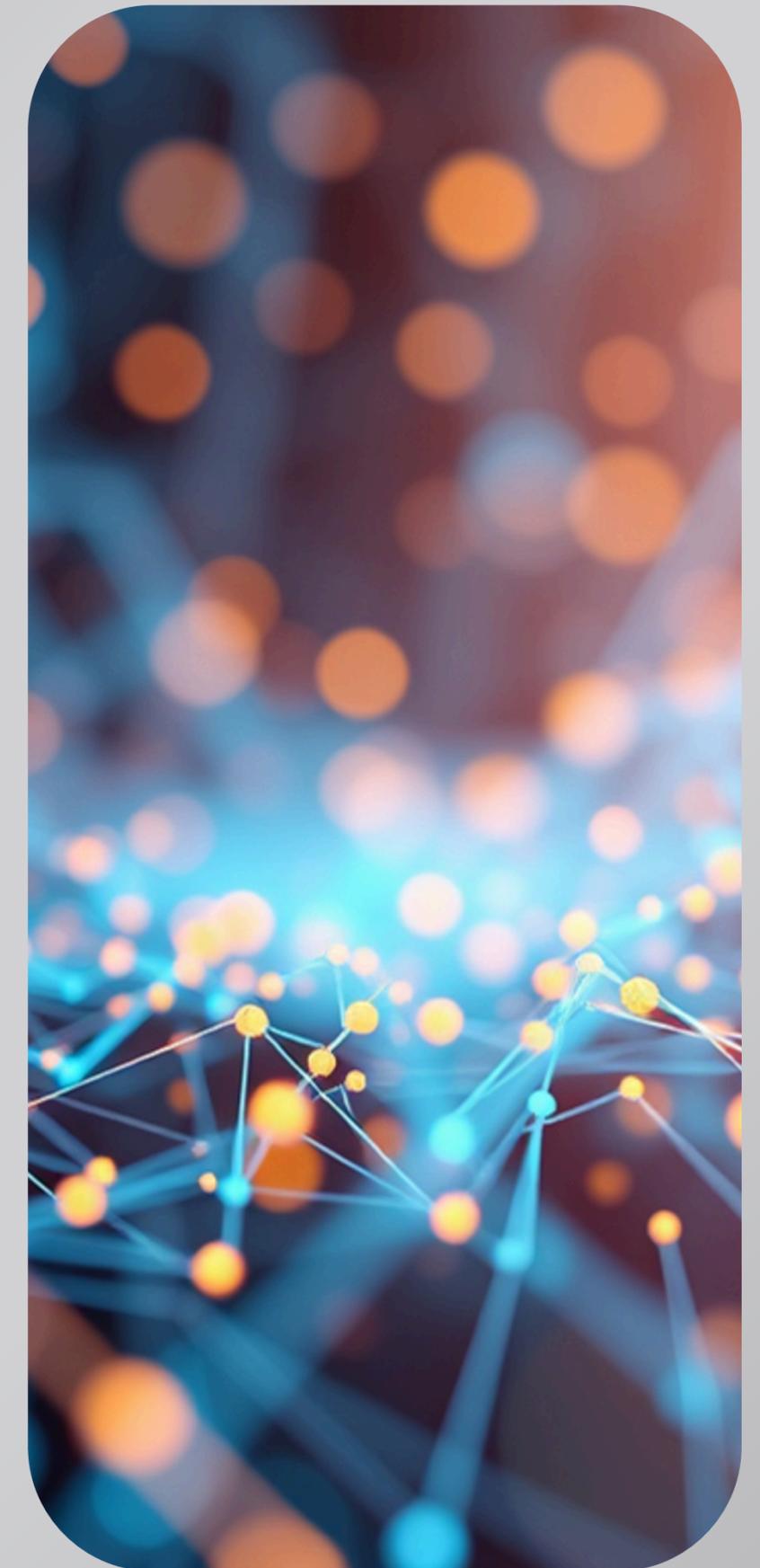
ABOUT THIS COURSE

This programme progresses from core computer science and programming into machine learning, deep learning, NLP, and computer vision, supported by strong math and probability foundations.

You'll also cover critical areas like AI ethics and governance, and move into modern systems like cloud computing for AI and intelligent systems/robotics. With internship and capstone outcomes built into the programme structure, students graduate with proof-of-work and clearer career direction.



Future **Ready.**





WHO SHOULD DO THIS COURSE?

STUDENTS PASSIONATE ABOUT TECHNOLOGY, AI, AND INNOVATION

THOSE WITH STRONG LOGICAL THINKING AND PROBLEM-SOLVING ABILITIES

SCIENCE STUDENTS WITH AN INTEREST IN MATHS, COMPUTERS, OR DATA

LEARNERS AIMING FOR FUTURE-READY TECH CAREERS OR HIGHER STUDIES

WHAT YOU'LL LEARN

- Learn to build AI systems, not just talk about them.
- You'll code, train models, analyze data, and build end-to-end AI projects that demonstrate real capability.
- The curriculum is structured to develop full-stack AI readiness: programming + algorithms, ML foundations, deep learning and applied AI, then deployment-relevant systems and capstone-level delivery. You'll graduate having worked through projects and an internship phase that help convert learning into demonstrable outcomes.



Math foundation: Mathematics for Computer Science I & II (Linear Algebra, Probability).

Programming base: Intro to Programming (Python/Java), OOP.

CS core: Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks.

ML/DL: Machine Learning I (supervised/unsupervised), Deep Learning (Neural Networks), ML II (reinforcement/advanced ML)

Applied AI: AI Algorithms, Data Mining & Warehousing.

Language + vision: NLP I & II, Computer Vision & Image Processing.

Responsible AI: AI Ethics & Governance.

Modern systems: Cloud Computing for AI, Robotics & Intelligent Systems, Big Data Analytics for AI.

Real outcomes: Minor Project + Internship I; Capstone (Major Project) + Seminar/Viva.

COURSE STRUCTURE

SEMESTER 1

- Mathematics for Computer Science I
- Introduction to Programming (Python/Java)
- Basics of Artificial Intelligence
- Digital Logic & Computer Organization
- Communication Skills / English

SEMESTER 2

- Mathematics for Computer Science II (Linear Algebra, Probability)
- Data Structures & Algorithms
- Object Oriented Programming
- Database Management Systems
- Environmental Science

SEMESTER 3

- Statistics & Probability for AI
- Operating Systems
- Machine Learning I (Supervised & Unsupervised Learning)
- Computer Networks
- Elective I (Open Elective – Humanities / General Science)

SEMESTER 4

- Deep Learning & Neural Networks
- Artificial Intelligence Algorithms
- Data Mining & Data Warehousing
- Natural Language Processing I
- Elective II (Domain Elective)

SEMESTER 5

- Machine Learning II (Reinforcement Learning & Advanced ML)
- Natural Language Processing II
- Computer Vision & Image Processing
- AI Ethics & Governance
- Minor Project / Internship I

SEMESTER 6

- Robotics & Intelligent Systems
- Big Data Analytics for AI
- Cloud Computing for AI
- Capstone Project / Major Project
- Seminar & Comprehensive Viva

Semester V features an International Tour enabling global business exposure.

INTERNATIONAL INDUSTRY TOUR

- AURA offers an free international industry tour designed to give students short-term global exposure through university visits, industry interactions, and cultural learning.
- The focus is on global awareness, confidence, and real-world perspective not mandatory travel or degree dependency.

WHAT STUDENTS **GAIN**:



EXPOSURE TO INTERNATIONAL UNIVERSITIES AND WORKPLACES

INSIGHTS INTO GLOBAL BUSINESS CULTURE AND PRACTICES

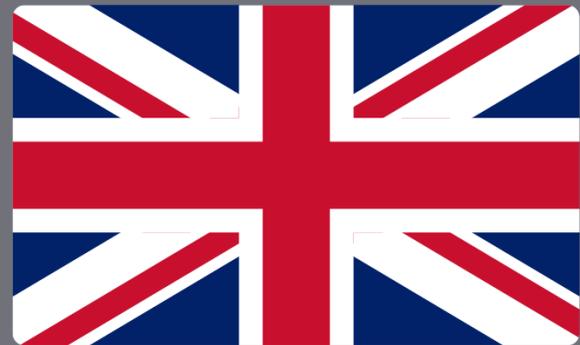
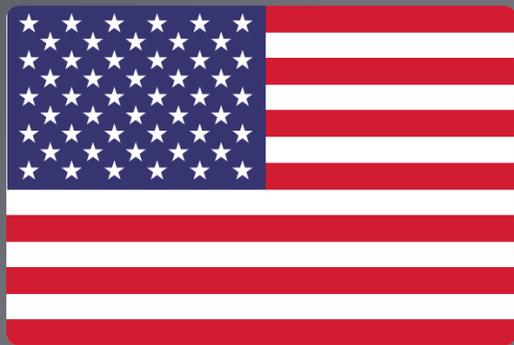
CROSS-CULTURAL LEARNING AND PROFESSIONAL NETWORKING

CLARITY ON FUTURE INTERNATIONAL STUDY OR CAREER OPTIONS

PARTICIPATION IS VOLUNTARY AND DOES NOT IMPACT ACADEMIC PROGRESSION AT AURA.

GLOBAL PATHWAYS

A flexible academic option that allows students to begin their undergraduate studies in India and optionally explore international progression through partner universities



01

COMPLETE YOUR BACHELOR'S DEGREE IN INDIA

Study all years at AURA and graduate with your full Indian bachelor's degree.

02

2+1 INTERNATIONAL BACHELOR'S PATHWAY

Study first two years at AURA → transfer abroad for the final year → graduate with an international Bachelor's degree.

03

2+2 INTEGRATED BACHELOR'S + MASTER'S

Study first two years at AURA → transfer abroad for the final year → progress directly into a Master's programme abroad through an integrated pathway.

AURA

Career Progression Model

A milestone-based learning journey that builds fundamentals, validates capability through real work, enables informed career decisions, and opens structured global progression pathways.

India Foundation
(Year 1)

Proof of Work
(Year 2 Momentum)

Pathway Choice Point
(Decision + Counselling)

International Progression
(UK/US)(Optional)

- Core business fundamentals & a learning rhythm that actually holds.
- Projects, presentations, & early exposure that turn learning into outcomes.
- Decide based on eligibility, goals, and outcomes, not guesswork.
- Partner options in the UK & the US, aligned to a structured pathway model.

CAREER OUTCOMES



Graduates develop strong foundations in AI and machine learning, enabling them to build intelligent systems and data-driven solutions across sectors.

AI Engineer (Entry-Level)

Machine Learning Engineer

Data Scientist

Automation & AI Solutions Analyst

Research & AI Development Associate



READY TO START LEARNING?

ENROLL TODAY AND UNLOCK YOUR POTENTIAL

 aurabschool.com



CAMPUS LOCATION:

ROAD NO 3, BANJARA HILLS, HYDERABAD



CONTACT@AURABSCHOOL.COM



ADMISSIONS SUPPORT: +91 92 58 58 79 79



[@aurabschool](https://www.instagram.com/aurabschool)



[@vanimekaofficial](https://www.instagram.com/vanimekaofficial)