



Gujarat University

Department of Computer Science

Rollwala Computer Centre



“The Mission of the department is to usher in era of quality software professionalism relevant and useful to the industry, business and other organization. The basic purpose is to expose the students to the real world issues, encourage them to pursue the course that fits one’s career goals and prepare them to prove themselves in any National / Internationals scenario.”

M.Sc. (Artificial Intelligence & Machine Learning)

“Measure of Intelligence is the ability to change”

Albert Einstein

Being a Department providing technology based education; we continually update ourselves with market scenarios, industrial requirement & research avenues. Observing the increasing prevalence of intelligent computing in our lives & keeping up with the demand of AI & ML in scientific, business & industrial sectors, we are initiating a course M.Sc.(AI & ML). Currently, AI is evolving and rising and coming years are set for the giant forward leap in this discipline.

Artificial Intelligence (AI) is a branch of computer science dealing with the simulation of intelligent behavior in computers. It makes machine act and think like humans. Be it bank operations, medical science, air transport – new applications and technologies are getting heavily based on AI and Machine learning.

Machine learning is the AI application which allows machine to learn themselves on giving them access to the data. With an objective of automating mundane task AI and machine learning products are on rise and in great demand.

In this course we aim to teach students the basics and applications of AI, including: machine learning, probabilistic reasoning, computer vision, and natural language processing. It has prospective career opportunities in the area of employment as well as research.

Duration: 2 years (spread over four semesters) **Fees:** ₹ 30,000/- per semester

Semester - I

- Mathematical Foundation
- Introduction to Programming with Python
- Introduction to Artificial Intelligence
- Object Oriented Concepts & Programming Using C++
- Project - I

Semester - II

- Numerical Optimization
- Advanced Python
- Introduction to Machine Learning
- Introduction to Computer Vision
- Project - II

Semester - III

- Deep Learning Fundamentals
- Introduction to Reinforcement Learning
- Elective*
 - ✓ Natural Language Processing
 - ✓ Deep Learning for Computer Vision
- Major Project (Ideation and Literature Review)

Semester - IV

- Major Project (Continued)

We have...

State-of-art teaching environment

Skilled and experienced faculties

Strong Computing Infrastructure

Hostel Facility

Gujarat University Startup & Entrepreneurship Council (www.gusec.org)

Department of Computer Science

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