



**TATA Institute of Social Sciences**  
**School of Skill Education**

Affiliated Service Provider

**PC Training Institute Limited**

**B.Sc in**

**ARTIFICIAL INTELLIGENCE  
& MACHINE LEARNING**



**ENROLL NOW**

**Eligibility**

**10 + 2 (Science & Maths) or equivalent, in Information Technology stream.**



# B.Sc in Artificial Intelligence and Machine Learning

In today's rapidly transforming digital landscape, Artificial Intelligence (AI) and Machine Learning (ML) are at the frontline of technological transformation. The IT-ITeS sector, encompassing IT services, R&D, engineering design, and BPO services, leverages AI and ML to drive innovation, efficiency, and competitiveness across industries. As the internet, globalization, and technological advancements continue to shape business environments, AI and ML applications are revolutionizing sectors like healthcare, finance, and automation. B.Sc in Artificial Intelligence and Machine Learning prepares professionals with the expertise to design insightful systems, analyze data, and develop cutting-edge solutions that enhance business operations in this dynamic field.



## INTRODUCTION OF THE SECTOR

B.Sc in Artificial Intelligence and Machine Learning program is designed to meet the growing demand for skilled professionals in the field of AI and ML. This program offers students a comprehensive understanding of AI and ML concepts, algorithms, and applications. The curriculum focuses on data analysis, machine learning algorithms, and their real-world applications across various sectors. By the end of the course, students will be equipped with the knowledge and skills needed to pursue diverse roles in data analytics, AI development, and machine learning engineering, ensuring they are prepared to contribute to the tech-driven future. B.Sc in Artificial Intelligence and Machine Learning program offers students a deep understanding of data analysis, machine learning algorithms, and their real-world applications. With a carefully crafted curriculum, students will gain the skills required to succeed in the AI and ML fields. Upon completion, graduates will be ready to take on various roles in data analytics, AI, and ML, contributing to the rapidly advancing tech industry.



## JOB ROLE

Skills in Machine Learning (ML) introduce various career paths for graduates. They can begin as junior data scientists, acquiring expertise in data analysis and model development. Graduates with a focus on Deep Learning can take on roles as Data Scientists, specializing in complex neural networks and pattern recognition. Those interested in automation and end-point security can work with ML to detect and mitigate threats, such as malware. Additionally, many opportunities exist as Scientists in Analytics and Machine Intelligence, where professionals apply ML techniques to derive valuable insights and drive innovation across industries.



# Semester-Wise Courses Curriculum

## SEMESTER- I

Course Code	Course Name	Credits
GE 1.1	Functional English	2
GE 1.2	Computing Skills and Digital Literacy	2
AI 1.1	Fundamental Course on AI & ML	2
AI 1.2	Mathematics for Data Science	2
AI 1.3	Programming Concepts and Problem Solving using Python	2
AI ST1	Skill Training	12
CDPNE	*Domain Practicum	NC

## SEMESTER- II

Course Code	Course Name	Credits
GE 2.1	Communication Skills	2
GE 2.2	Environmental Studies	2
AI 2.1	Fundamental Programming using R	2
AI 2.2	Statistics for Data Science	2
AI 2.3	Machine Learning Methods using Python and R-I	2
AI ST2	Skill Training	12
CDPNE	*Domain Practicum	NC

# Semester-Wise Courses Curriculum

## SEMESTER- III

Course Code	Course Name	Credits
GE 3.1	Financial Literacy	2
GE 3.2	Basics of Legal and HR Policies	2
AI 3.1	Database Management Systems and Data Warehousing	2
GE 3.2	Programming for AI and ML using Python and R	2
GE 3.3	Advance Statistics for Data Science	2
AI ST3	Skill Training	12
CDPNE	*Domain Practicum	NC

## SEMESTER- IV

Course Code	Course Name	Credits
GE 4.1	Design Thinking	2
GE 4.2	Organizational Behaviour	2
AI 4.1	Machine Learning Methods using Python and R-II	2
AI 4.2	Big Data and NoSQL	2
AI 4.3	Data Visualization and Story- telling with Tableau	2
AI ST4	Skill Training	12
CDPNE	*Domain Practicum	NC

# Semester-Wise Courses Curriculum

## SEMESTER- V

Course Code	Course Name	Credits
GE 5.1	Health and Wellness	2
GE 5.2	Personal Grooming	2
AI 5.1	Natural Language Processing with Machine Learning	2
AI 5.2	Artificial Intelligence and Robotics	2
AI 5.3	Machine Learning for Business Domains - Marketing Analytics	2
AI ST5	Skill Training	12
CDPNE	*Domain Practicum	NC

## SEMESTER- VI

Course Code	Course Name	Credits
GE 6.1	Entrepreneurship	2
GE 6.2	Employment Readiness	2
AI 6.1	Computer Vision using Artificial Intelligence	2
AI 6.2	Machine Learning for Business Domains - HR Analytics	2
AI 6.3	Machine Learning for Business Domains - Finance and Risk Analytics	2
SD ST6	Skill Training	12
CDPNE	*Domain Practicum	NC

# Tuition Fee and Financing

**Note: Laptop / Desktop is recommended for the program.**

**\* Domain Practicum- "Compulsory and Non-Credit, non-evaluative component"**

- The Skill Training component is 50% to 60% ranging from 600 hours to 720 hours per year depending upon the industry requirement
- Programme fees: Rs. 60,000/-per annum
- Examination fees: Rs. 1,600/- per semester and Rs.3200/- per annum
- Caution Deposit (Refundable): Rs. 5000/-
- Convocation Fees: Rs.2000/- (In absentia Rs.2500/-)

## Easy Step to Enroll



### Career Counselling

Career in AI & ML will reach out to understand the eligibility. If a student is eligible for the program. The Student will be shared an acceptance letter.



### Easy Registration

After receiving an acceptance letter student scan book their seats by paying the booking amount.



### Start Up skilling

Start your learning journey with Skill Arbitrage and unlock your potential to reach greater heights in the field of B.Sc in AI & ML

# GALLERY



# Thank You!

For any queries related to our courses prior to enrollment, please contact us on the below:

Contact Number: ☎️ +91 8595901848, 8595901849

CHAT WITH US  
ON WHATSAPP



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