# B.TECH. CSE (ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)

Artificial Intelligence and Machine Learning is a combination of Computer Science, Mathematics and Cognitive Science to build intelligent systems. This 4-year undergraduate course of Computer Science & Engineering with specialization in Artificial Intelligence & Machine Learning is designed to educate the students about state-of-the-art technologies like Mathematical and Statistical Foundations, Machine Learning, Neural Networks, Artificial Intelligence, Reinforcement Learning, Robotics and Deep Learning concepts.

## SCOPE OF AI & ML

❖ There is an exponential increase in the adoption of AI and ML technologies due to the growing need for intelligent and accurate decision making. In the last three years, demand for AI and ML skills has more than doubled, rising from USD 21.46 trillion in 2018 to USD 190.61 trillion by 2025.

❖ The Government of India recognizes the potential of AI and strategise its approaches to transform the economy. There is a plan to deploy AI in India in all the horizons of various sectors. Thus creating lakhs of vacancies for AI skilled professionals by 2024.

## COURSE OBJECTIVE

❖ The students who are interested in coding, probability, statistics, passion to learn and develop new algorithms, then AI-ML would be a good stream.

❖ Build experience with Machine Learning components, Artificial intelligence and Provide exposure to the latest tools and technologies

❖ Makes them acquire the ability to build smart solutions for the real-world challenges in a variety of domains and business applications and fields such as computer or machine vision, natural language processing, robotics, probability reasoning and problem-solving.

❖ This course offers the students a career in a futuristic industry with outstanding prospective fields and demanding positions.

## B.TECH. CSE (AI & ML) - JOB ROLES

- Data Scientist
- Data Engineer
- Business Analyst
- Data Analyst
- AI/ML Engineer
- Business Intelligence Engineer
- Research Scientist
- Data and AI Consultant
- Machine Learning Architect
- Software Developer or Python Developer-Machine Learning/NLP.
- Image processing Engineer.
- Computer/Machine Vision Engineer
- Algorithm specialists
- Deep Learning Engineer
- Speech Engineer
- AI - Technology Architect Leader
- Artificial Intelligence/Machine Learning Acceleration Engineer
- Cognitive Developer
- Natural Language Processing Engineer

# AI PROFESSIONAL DEMANDED BY

- Accenture
- Globoforce
- Amazon
- TCS Digital
- NuSigma
- AVO
- Fidelity Investments
- Facebook
- Google
- IBM
- Microsoft
- GE Healthcare
- Emids
- Adquest Capital Advisors Pvt. Ltd.
- Byju's
- Wipro
- Ernst & Young
- Syngene International Ltd.
- AB innovative
- Omnex
- HCL
- Aris Global Pvt. Ltd
- Fragma Data Systems
- HyperVerge
- Samsung(R&D)
- Secfence Technologies
- Fractal Analytics
- Target
- AB Innovative
- Nissan Digital Hub
- Navriti Technologies Pvt. Ltd.
- Credit Vidya
- Oorwin Labs
- AGNext Technologies Pvt. Ltd.
- Siemens Technologies and Services Pvt. Ltd
- Teradata
- ZEBI
- Turiya Softtech
- Synopsys
- Roots Technologies
- RedHat
- Zebi Data
- Chariot Tech Pvt Ltd
- GFCS Pvt. Ltd.
- Online RTI
- ArisGlobal Pvt. Ltd.
- Unity Technology
- Cognizant
- Nvidia
- Intel
- Lenovo
- Adobe
- MoTek Technologies
- Uber
- PCO Innovation
- Rakuten Marketing
- Wells Fargo
- Enterprise IT Solutions
- Autodesk
- The New India AssuranceCo. Ltd.
- Kenyt.AI
- BuzzHire
- Netradyne
- AIndra
- Artivatic Data Labs
- Mad Street Den
- FluidAI
- Entropik Tech
- Day One Technologies
- Quytech
- Dew Solutions Pvt. Ltd
- Prolitus Technologies
- Fusion Informatics Ltd.
- Cognitive Machines
- Ecosmob Technologies Pvt. Ltd.
- Stratahive Services Private Limited
- 10xDS - Exponential Digital Solutions