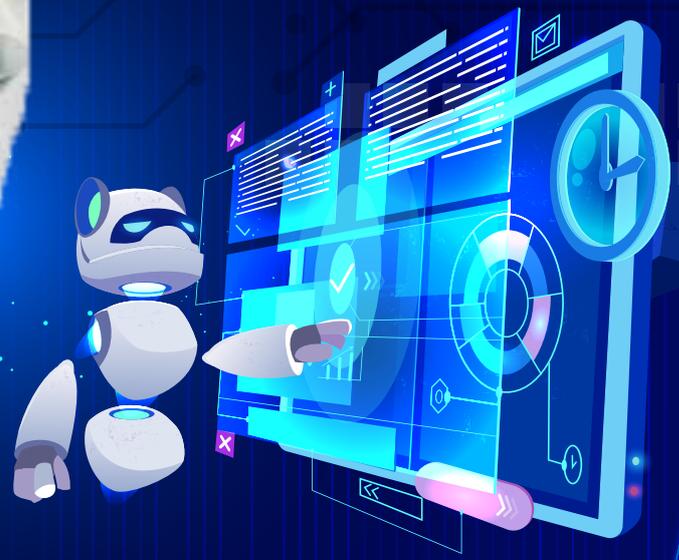# PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY

**P.I.E.T.**

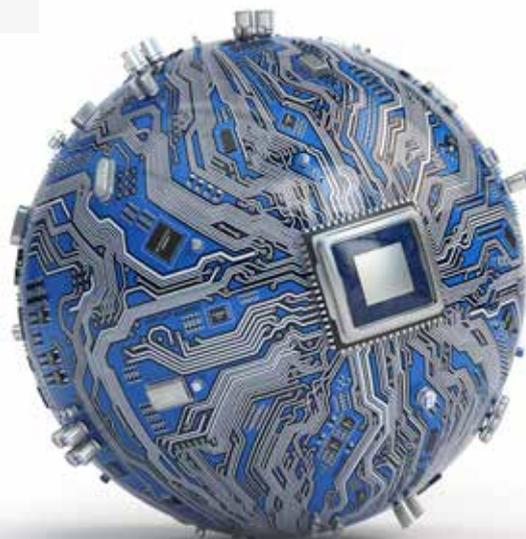(Approved by AICTE, New Delhi & Affiliated to Kurukshetra University, Kurukshetra)

# B.Tech.
## CSE in Artificial Intelligence & Machine Learning

# About the Programme

Computer Science & Engineering in Artificial Intelligence & Machine Learning is an undergraduate programme with advanced learning solutions imparting knowledge of advanced innovations like machine learning often called deep learning and artificial intelligence.

This specialisation is designed to enable students to build intelligent machines, software or applications with a cutting-edge combination of machine learning, analytics and visualisation technologies. The main goal of Artificial Intelligence (AI) and ML is to program computers to use example data or experience to solve a given problem. Many successful applications based on machine learning exist already, including systems that analyze past sales data to predict customer behaviour (financial management), recognize faces or spoken speech, optimize robot behaviour so that a task can be completed using minimum resources, and extract knowledge from bioinformatics data.

This programme discusses AI methods based in different fields, including neural networks, signal processing, control and data mining, In order to present a unified treatment of ML problems and solutions.

# Scope of Artificial Intelligence & Machine Learning

Artificial Intelligence market is expected to grow from USD 21.46 Billion in 2018 to USD 190.61 Billion by 2025. ML globally recognized as a key driver of digital transformation, will be responsible for cumulative investments of $58 billion by the end of 2021.Neural networks market will be worth over $23 billion in 2024.

It is not needed to be mentioned that AI has now penetrated in all the horizons of service sector. There is rarely any field which is untouched by Artificial Intelligence hence generating lakhs of vacancies for skilled professionals by 2020.

# Career Prospects

## This course provides the following jobs

- Machine Learning Engineer
- Big Data & AI Architect
- Big Data Scientist
- Data and AI Consultant
- Robotics Professional
- Software Engineer
- IoT Architect
- Artificial Intelligence Engineer

- Research Engineer - Artificial Intelligence
- Machine Learning Engineer
- Machine Learning Architect
- Software Developer or Python Developer-Machine Learning/NLP
- Image processing Engineer-Artificial Intelligence/ Machine Learning

# Leading Recruiters

## Trained professionals are needed by technologically driven companies across the platforms