



# PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



## **B.TECH** COMPUTER SCIENCE (Artificial Intelligence and Data Science)

### About the Programme

B. Tech in Computer Science with specialisation in Artificial Intelligence and Data Science (DS) is a new, exponentially growing field which consists of a set of tools and techniques used to extract useful information from data. The programme encompasses data Science as an interdisciplinary, problem-solving oriented subject that learns to apply scientific techniques to practical problems. The course curriculum involves a blend of data inference, algorithm development, and technology to analytically solve complex problems. The programme imparts a confluence of skills in three major areas of mathematical expertise, technology hacking skills and business strategy and acumen.

The core of this programme is the ultimate use of enormous data in creative ways to generate business value. Hidden insights are brought to the fore to enable companies to make smarter business decisions. Data Science programme orients on practical classes and self-study during the preparation of datasets and programming of data analysis tasks. Data Scientists in start-ups as well as well-established companies. More than 50,000 jobs in the Data Science and Machine Learning are lying vacant in India, for lack of skilled professionals. A McKinsey Global Institute study states that by 2019, the US alone will face a shortage of about 190,000 professionals with deep analytical skills. To meet this need of the hour PIET institute is stepping towards inculcating the required skills in our students to be the future Data Scientist, Data Engineer or Business Analyst.

## Learning outcomes of this track

- To extract, transform and load data and use visualization techniques to derive actionable insights to positively influence a desirable outcome
- To utilize statistical methods in the data driven decision making process
- To use statistical methods to develop and maintain predictive models
- To process large amounts of data using big data technologies
- To leverage BI tools to develop business data processing and visualization pipelines
- To create predictive models using AI and Machine Learning techniques

## Career Options

- Data Scientist
- Machine Learning Engineer
- Data Visualizers
- Data Science Consultant
- Data Technologies Specialist
- Data Analyst
- Database Administrators
- Data Engineers
- Financial Modeler
- Business Analyst
- Data Architects
- Data Ecologists
- Clinical and Pharmaceutical Analyst

## Leading Recruiters

		
		
		



### Panipat Institute of Engineering & Technology

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