Detailed Report

Seminar on- "Data Science"

In association with- CETPA Infotech Pvt. Ltd., Noida

Subject Area- Concepts of Data Use

Organized by- Department of Computer Science and Engineering

Data science combines math and statistics, specialized programming, advanced analytics, artificial intelligence (AI), and machine learning with specific subject matter expertise to uncover actionable insights hidden in an organization's data. These insights can be used to guide decision making and strategic planning. The open-source tools support pre-built statistical modelling, machine learning, and graphics capabilities.Given the steep learning curve in data science, many companies are seeking to accelerate their return on investment for AI projects; they often struggle to hire the talent needed to realize data science project's full potential. To address this gap, a seminar on **"Data Science"** was jointly hosted at Eshan College of Engineering, Farah, Mathura and CETPA Infotech Pvt. Ltd., Noida, dated 10/04/2021.

It was realized thatdata science is the domain of study that deals with vast volumes of data using modern tools and techniques to find unseen patterns, derive meaningful information, and make business decisions. Students were engaged in extracting knowledge from data they gather using different methodologies. The seminar's aim was helping students in accurately displaying data points for patterns that may appear that satisfy all the data's requirements

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and instilling the qualities of a data scientist in collecting, organizing, analysing, and interpreting data to find trends, patterns, and correlations. B. Tech (IInd, IIIrd and IVth year) 29 students were assembled in Seminar Hall. A feedback form was requested to be filled by the students for suggestive enhancement.

Seminar Highlights

➢ Data Acquisition, Data Entry, Signal Reception, Data Extraction. This stage involves gathering raw structured and unstructured data.

➢ Data Warehousing, Data Cleansing, Data Staging, Data Processing, Data Architecture. This stage covers taking the raw data and putting it in a form that can be used.

➢ Data Mining, Clustering/Classification, Data Modeling, Data Summarization. Data scientists take the prepared data and examine its patterns, ranges, and biases to determine how useful it will be in predictive analysis.

➢ Exploratory/Confirmatory, Predictive Analysis, Regression, Text Mining, Qualitative Analysis. This stage involves performing the various analyses on the data.

➢ Data Reporting, Data Visualization, Business Intelligence, Decision Making. In this final step, analysts prepare the analyses in easily readable forms such as charts, graphs, and reports.

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