



**MGR ASSOCIATION FOR GREAT INNOVATIVE CREATORS**

Information Technology

Event Title	Seminar on "Aspiring career towards data scientist"		
Objective of Event	The data science seminar held at our engineering college aimed to introduce students to the fascinating realm of data science and its significance in various engineering domains. The seminar delved into the fundamental concepts, tools, and applications of data science,		
Chief Guest /Speaker Details	Mr. Subramani Arumugam, Data scientist, Latenview Analytics		
Date	01/08/2023	Time	2:00 PM to 4:00 PM
Venue	Auditorium (RA Block)	No. of Participants	150

REPORT

TITLE

Seminar on "Aspiring career towards data scientist"

CONTENT

The Department of Information Technology organized a seminar on "Aspiring career towards Data scientist" 01.08.2023 between 2.30pm to 3:15 p.m. The Seminar started with the welcome address given by Dr. N. Kanya, Head of the Department, Department of Information Technology and also introduced the speaker of the day Mr. Subramanian Arumugam. Data Scientist, Latenview Analytics.

The seminar commenced with an overview of data science and its interdisciplinary nature, combining elements of statistics, machine learning, computer science, and domain expertise. The introductory session highlighted the exponential growth of data and how harnessing this data can revolutionize engineering practices.

**Data Preprocessing and Cleaning:** The importance of data preprocessing in ensuring data quality and reliability was emphasized. Techniques for data cleaning, missing value imputation, and outlier detection were discussed, showcasing their relevance in engineering datasets.

**Exploratory Data Analysis (EDA):** Attendees were introduced to EDA, a critical step in understanding data patterns and extracting meaningful insights. Data visualization techniques such as histograms, scatter plots, and box plots were explored to gain a comprehensive understanding of data distributions.

**Machine Learning Algorithms:** An overview of popular machine learning algorithms, including linear regression, decision trees, random forests, and neural



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networks, was provided. Their application in engineering scenarios, such as predictive maintenance and fault detection, was discussed.

**Feature Engineering and Selection:** The process of feature engineering to extract relevant information from raw data and feature selection to reduce dimensionality and improve model performance were explained with real-world examples.

**Model Evaluation and Deployment:** Students were enlightened about evaluating model performance using metrics like accuracy, precision, recall, and F1-score. The deployment phase, where models are integrated into practical applications, was discussed, highlighting the importance of scalability and efficiency.

Several case studies were presented to showcase the versatility of data science in engineering. These included:

1. Predictive maintenance of industrial machinery to reduce downtime and enhance productivity.
2. Energy consumption optimization through data-driven strategies in smart buildings.

**Future Prospects:** The seminar concluded with a discussion on the growing demand for data science professionals in various engineering industries. The potential for innovation and problem-solving through data science was emphasized, motivating students to consider data science as a viable career option.

**Q&A Session:** The seminar concluded with an interactive Q&A session, allowing students to seek clarifications and share their thoughts on data science applications in engineering.

The event was coordinated by Dr.R.Selvi Assistant Professor, Department of IT. We thank our honorable President Er.A.C.S.Arun Kumar and all the Executives for the success and smooth conduct of the event.





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The data science seminar provided an enriching experience for engineering students, offering them a glimpse into the transformative power of data-driven decision-making in their field. The seminar successfully ignited curiosity and inspired students to delve further into the world of data science, propelling them towards a promising and dynamic career path.

### PHOTOS

