

**A Report on Guest Lecture on "Data Science for Engineers"
Organized by Department of Computer Science & Engineering
in association with Computer Society of India (CSI)
02.12.2023**



Submitted by: Mrs. V Geetha, M. Tech., Assistant Professor, Mr. A Kumar, M. Tech., Assistant Professor, Department of Computer Science & Engineering.

Resource Person: Dr. K. Veningston, Assistant Professor, NIT, Srinagar.

Participants: II Year B. Tech Sec A & D – Computer Science & Engineering Students – MITS

The Department of Computer Science & Engineering (CSE), in collaboration with the CSI, organized a guest lecture titled 'Data Science for Engineers' at the MITS campus on December 02, 2023. The objective was to furnish students with a learning platform and hands-on activities. The event commenced with an inauguration in Seminar Hall B at 10:00 AM, with the participation of 140 attendees.

Topics for the session

- Insights of Tasks in DS and AI
- Defining DS
- Tasks in DS
- Defining AI
- Tasks in AI
- Are AI and DS related? If so, how?

Inauguration: The inaugural session started at 10:00 AM in Online Microsoft Teams. Convenor Dr. R. Kalpana, Professor & HOD of Computer Science & Engineering had given a warm welcome and invited our Chief Guest. Event Coordinator Mrs. V Geetha M. Tech., Assistant Professor, gave the Welcome Address and briefed about this event, and handed over the session to our Chief Guest, Dr. K Veningston, Assistant Professor, NIT, Srinagar.

Dr. R. Kalpana Professor & HOD was requested to address the gathering. She addressed the students, emphasizing the significance of current technologies and urging them to acquire a thorough understanding for employment opportunities and success. Dr. Kalpana expressed gratitude to the organizers for arranging the Guest Lecture.

Dr. K Veningston, Assistant Professor, NIT, Srinagar, provided a concise introduction to Data Science, what are the tasks involved in Data Science like collect data, store data, process data, describe data and model data. In data collection may depends on environment in which we are working as data rich organization example E-commerce, working with farmers, political party. In storing data discussed transactional and operational data were discussed, data from multiple databases within the organization, unstructured data. In processing data, data wrangling or data munging, data cleaning, data scaling, normalizing and standardizing. In describing data explained about visualizing data, summarizing data. In modelling discussed statistical modelling, algorithmic modelling. What are the reasons for DL become more popular. After that discussed AI and its tasks as problem solving, knowledge representation, reasoning, decision making, perception, communication, actuation. Finally, he ended his session by answering many queries posted by the students.



Mrs. V. Geetha M. Tech, called Mr. A. Kumar, M. Tech., Event Coordinator for delivering the vote of thanks at 11:30 AM.

Vote of Thanks: Mr. A. Kumar M.Tech., Assistant Professor proposed a vote of thanks. He thanked HOD and event Chief Guest Dr. K. Veningston, Assistant Professor, Department of CSE, NIT Srinagar for delivering a topic. He thanked to students. And he extended his thanks to the Principal, and the Management for their support to conduct the guest lecture.

Outcomes:

1. Inspiration and motivation.
2. Real Life world Exposure and current Industry Insights.
3. Valuable learning insights and ideas
4. Learn about tools using in IT field.
5. Importance of DS, AI.