Department of Computer Science and Engineering (Data Science)

Expert Talk Report On

"Exploring Data Science with Python"

The department of Computer Science & Engineering (Data Science) had organized an expert talk series on the theme "Exploring Data Science with Python" on 24th May 2024. Mr. Venkat Surendra, Senior Technical Consultant, Adobe was the expert speaker for the session.

Mr. Surendra began by defining data science and its importance in today's data-driven world. He emphasized the interdisciplinary nature of data science which combines statistics, computer science and domain-specific knowledge. The session focused on the Python's role in data science, highlighting its simplicity and the utility of key libraries such as NumPy for numerical operations, Pandas for data manipulation, Matplotlib for data visualization, and Skit-learn for machine learning.
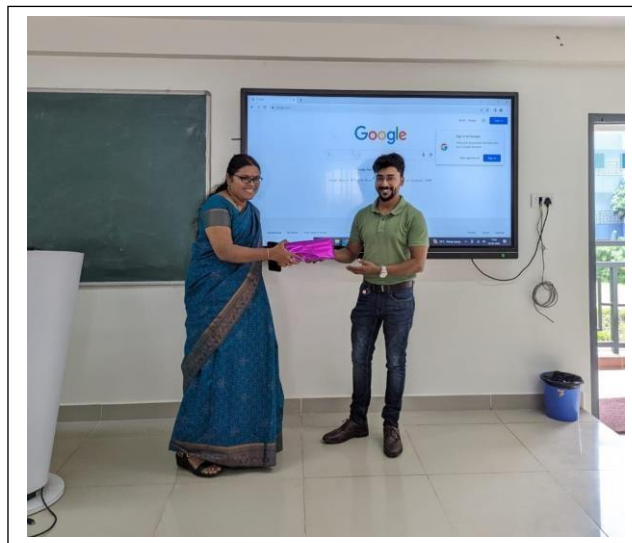

In Pic: Mr. Venkat Surendra is addressing the students

The session also covered the basics of machine learning, where Mr. Surendra explained the differences between supervised and unsupervised learning. He outlined the workflow of building a machine learning model, from splitting the data into training and testing sets for training the model and evaluating its performance.

In Pic: Mr. Venkat Surendra is addressing the student

Mr. Surendra explained the fundamental steps in data science, starting with data collection and preprocessing. He emphasized the importance of ensuring data quality through cleaning and normalization techniques. Following this, he introduced exploratory data analysis.

In Pic: HoD - CSE(DS) is felicitating the guest

Mr. Venkat Surendra's session on basic Python programming for data science was highly educational and practical. It provided students with a solid foundation in Python, covering key concepts and libraries essential for data science. The hands-on demonstration and Q&A session further enriched the learning experience.

HoD – CSE(DS)