







DEPARTMENT OF CSE - DATA SCIENCE

Event: “Zero to Insight: Building an AI Data Pipeline”

Venue: Room C222

Date :16.9.25


Time-10:00 AM-12:00PM




Department of Computer Science and Engineering (Data Science)


Workshop


Zero to Insight: Building an AI Data Pipeline




Mr. Saubhagya Ranjan Sahoo
Data Engineer
Pentland Brands

 **16 September 2025**

 **10:00 AM - 12:00 PM**

 **7th Semester Students**

 **C - 222**

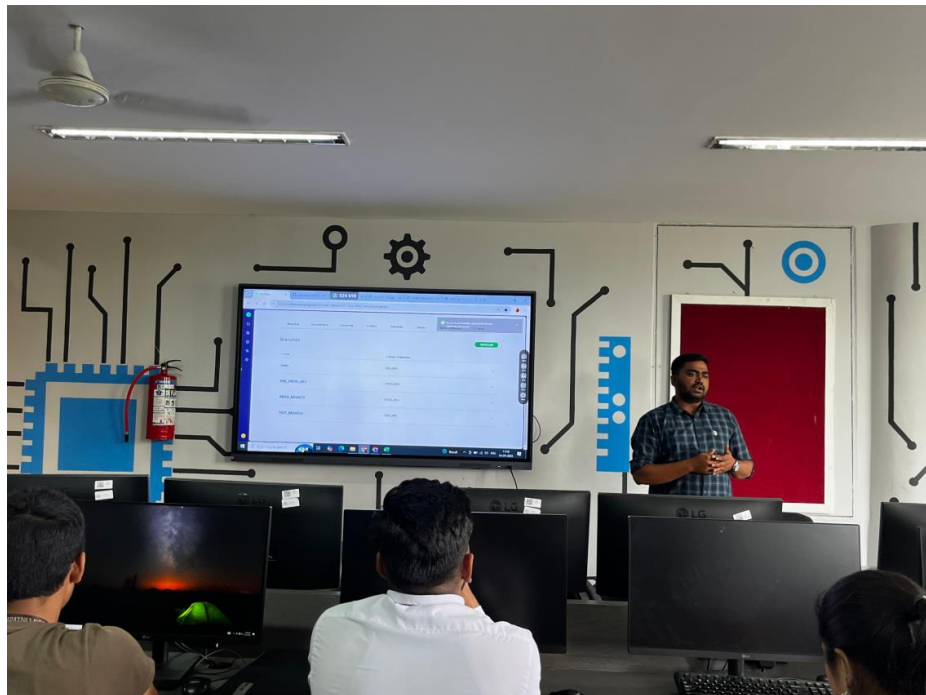
Faculty Coordinator

Prof. Swati Sehgal
Assistant Professor

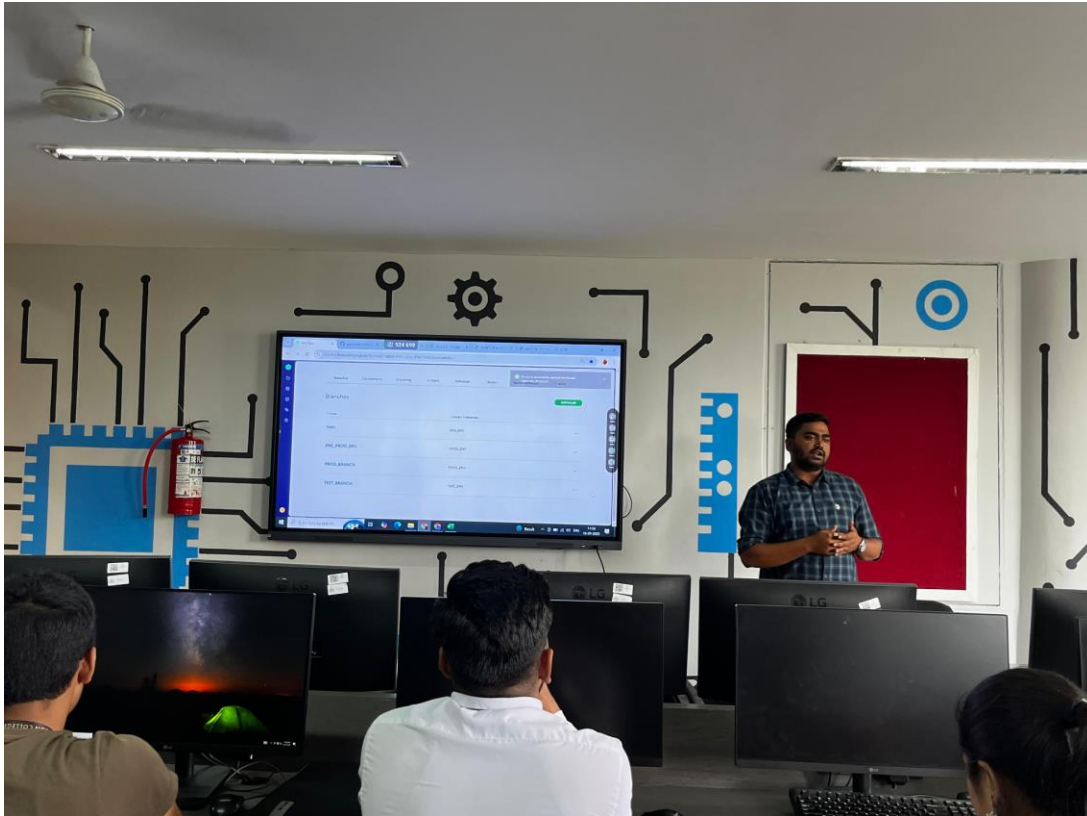
Convenor

Dr. Baswaraju Swathi
Associate Professor and HoD - CSE(DS)

On 16th of September 2025, the department of Computer Science and Engineering (Data Science), hosted a workshop for 7 th Semester students on the role of a Data Engineer and the usage of ETL (Extract, Transform, Load) tools, highlighting the importance of building and maintaining pipelines that move and process data for analytics and decision-making. The speaker explained that a Data Engineer is responsible for designing scalable pipelines, integrating data from multiple sources, ensuring data quality and reliability, and enabling analysts and data scientists to derive insights. The session introduced key tools such as AWS S3, which serves as a cloud-based central data lake offering durability, scalability, and cost-effectiveness; Snowflake, a cloud data warehouse that separates compute and storage while enabling scalable analytics through SQL queries; an ETL/ELT tool that provides a visual interface to extract, transform, and load data efficiently into systems like Snowflake. The workflow integration was also discussed, where data is first ingested and stored in AWS S3, then used for business insights. In conclusion, the talk emphasized that modern data engineering relies heavily on cloud platforms and ETL tools to manage large-scale data effectively, making it essential to understand tools like AWS S3, for building efficient, automated, and scalable data pipelines.







Swati

Faculty Coordinator

Prof.

SWATI SEHGAL

B. Swathi

Convenor

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Dr. B SWATHI