



# NEW HORIZON COLLEGE OF ENGINEERING

**DEPARTMENT OF CSE - DATA SCIENCE**

**Event: Workshop on “Exploratory Data Analysis Using Python & SQL”**

**Venue: Room C203**

**Time-11:00 AM-1:00PM**



WORKSHOP

Department of Computer Science & Engineering (Data Science)

## Exploratory Data Analysis Using Python & SQL



**Mr. Anand Jha**

Senior Data Engineer  
Tiger Analytics

 06 December 2024  
 11:00 AM to 01:00 PM  
 Room C 203

Coordinator  
**Prof. Pallavi Nayak**  
Assistant Professor

Convenor  
**Dr. B Swathi**  
HOD CSE(DS)



On December 6, 2024, the Department of Computer Science and Engineering (Data Science) hosted a workshop titled "Exploratory Data Analysis Using Python & SQL" for 3rd semester students. The workshop aimed to introduce foundational concepts in data analysis and was delivered by Mr Anand Jha, a Senior Data Analyst at Tiger Analytics. Mr. Jha is an experienced programmer with over 8 years in SDLC, including 4+ years in dashboarding (PowerBI and Tableau) and 6+ years in SQL, focusing on data analysis, migration, and visualization techniques. He is known for his expertise in optimization techniques and problem-solving capabilities.

The session began with an overview of Exploratory Data Analysis (EDA), emphasizing its importance in uncovering patterns and insights from data. Students were guided using Python libraries such as Pandas, Matplotlib, and Seaborn for data cleaning, manipulation, and visualization. The workshop also covered SQL techniques for querying and processing structured data, highlighting the integration of both tools in practical analysis workflows. Overall, the workshop was highly informative and beneficial for the students.



The workshop adopted a hands-on approach, enabling students to work with real-world datasets and apply their learned concepts. A case study on sales data allowed participants to clean, analyze, and visualize the data to extract meaningful insights. This interactive format,

featuring live demonstrations and collaborative problem-solving, ensured that students gained practical experience and confidence in their analytical skills. Resources such as datasets, Python scripts, and SQL queries were also provided for further practice.



Participants were enthusiastic about the session, praising the clarity of explanations and the topics' relevance. The Q&A segment offered valuable insights into career opportunities in data science, further inspiring the students. Overall, the workshop effectively equipped participants with essential tools and techniques for exploratory data analysis, laying a strong foundation for their academic and professional growth in data analytics.

**Faculty Coordinator**

**Prof. PALLAVI NAYAK**

**HOD**

**Dr. BASAVARAJU SWATHI**