



NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF CSE - DATA SCIENCE

Python for Real World Objects

Venue: Room C 203

Time - 11:00 AM- 01:00PM



NEW HORIZON
COLLEGE OF ENGINEERING



Department of Computer Science and Engineering (Data Science)

Workshop

Python for Real World Projects

 25th April 2024

 11:00 AM to 1:00 PM

 Room-C203

 4th Semester

Faculty Coordinator

Ms. Pallavi Nayak

Assistant Professor - CSE(DS)

Convenor

Dr B Swathi

HoD - CSE(DS)



Mr. Anand Jha

Senior Data Engineer

Tiger Analytics

On the 25th of April 2025, the Department of Computer Science and Engineering (Data Science) hosted a technical talk on “Python for Real World Objects”. The session was specially organized for the 6th-semester students to provide them with hands-on exposure to the integration of data analysis with web-based application development, which was delivered by Mr. Anand Jha, who is a senior Data Analyst at Tiger Analytics.

An experienced programmer with over eight years of overall experience in the field of SDLC with four years of relevant experience in dashboarding (PowerBi +Tableau) along with six years of experience in SQL with the main concentration on data analysis, data migration, and visualization techniques using data-driven tools and techniques by working on various optimization techniques, and help to deliver project requirements through excellent problem-solving capabilities.



The talk was delivered by a domain expert in Data Engineering and Application Development, who shared practical insights into using Python libraries for data cleaning and Streamlit for interactive app creation. The speaker emphasized the importance of preprocessing datasets, including handling missing values, inconsistent formats, and untitled or raw CSV files, transforming them into clean and usable formats. Real-world examples, such as identifying “filled” and “unfiltered” days in a dataset, were used to explain data quality issues and the process of resolving them using Pandas and NumPy.



The session also delved into the use of Streamlit, an open-source Python library that enables users to turn data scripts into shareable web applications. Students were introduced to Streamlit’s intuitive interface for uploading CSV files, visualizing data, and building dynamic dashboards. The speaker demonstrated how data cleaned and processed in Python could be seamlessly integrated into a web app for easier analysis and presentation. Participants learned how to automate formatting steps, render real-time updates, and deliver user-friendly data applications



The interactive talk concluded with a Q&A session, during which students inquired about best practices, optimization techniques, and career pathways in data analytics and web development. The session was well-received, with attendees appreciating the blend of technical depth and practical utility. It provided a solid foundation for understanding the end-to-end workflow of developing data-centric applications, bridging theoretical learning with real-world applications.

Faculty Coordinator

Prof. PALLAVI NAYAK

HoD

Dr. BASAVARAJU SWATHI