



**SILVER OAK
UNIVERSITY**
EDUCATION TO INNOVATION



IEEE

**Silver Oak University
IEEE Student Branch**

A REPORT ON
One Week training on Data Analysis using Python

Date: 7th June, 2021

Place: Cisco WebEx

One Week training on Data Analysis using Python

Introduction

The Department of Computer Engineering, Silver Oak College of Engineering & Technology, and Silver Oak University IEEE Student Branch has initiated a fifteen days Summer Internship Program to support the students academically and advance their technical skills to learn Python language, master data operations, data cleaning, conditional logic, data visualization, and statistics using a real-world application as a case study.

This Summer Internship program was exclusively for the students with 180 participants having taken part to get industry level training to advance their knowledge and learn more about the industrial applications.

About the Speakers

Mr. Asit Pandit, having expertise of more than four years as a software developer with Softvan, Ahmedabad. He is expertised in Artificial Intelligence and Machine Learning. Currently, he is working on a project for data cleaning using Machine Learning to classify images with different parameters.

Mr. Nimesh Manek, Co-founder of Softvan, Ahmedabad, Founder and Director of Aromatic Technologies. Expertised in java with multiple individual and collaborative achievements over the last ten years. Also shared his proficiency with Tata Consultancy Services in the past.

About the Session

Day 1

Date: 7 June, 2021

Time: 10:30 AM to 12:00 PM IST

The session began with Asit Pandit sir alongside Nimesh Manek sir explaining the concept of class and construction for object initialization and parameterizing them. He also explained the fundamental concepts of Object-Oriented Programming.

Mr. Asit Pandit concluded the session by assigning the daily coding tasks on the explained topics to gauge their understanding and practical concept implementation.

Day 2

Date: 8 June, 2021

Time: 10:30 AM to 12:00 PM IST

In the second session of One Week training on Data Analysis using Python, Mr. Asit Pandit began by discussing the queries and doubts of the students regarding the concepts and daily tasks discussed in the previous session. He further explained the Object-Oriented Programming concept - Inheritance, defining one class to derive or inherit the properties from another class. Using a live program, Mr. Asit Pandit demonstrated the benefits of inheritance and how it can improve code execution.

Day 3

Date: 9 June, 2021

Time: 10:30 AM to 12:00 PM IST

Mr. Asit Pandit commenced the third day with the query and doubt session. Further, Mr. Asit Pandit explained the concept of exception handling with custom exception. Further, concluding the day 3 session he gave the daily tasks to the students to expand their learning with practical knowledge.

Day 4

Date: 10 June, 2021

Time: 10:30 AM to 12:00 PM IST

On the fourth day, Mr. Asit Pandit explained the NumPy, pandas, and Matplotlib libraries along with code demonstration. He shared the wide industrial application of these concepts. Mr. Asit Pandit also gave an overview of Jupyter Notebook and its applications for data analysis and assigned a small Data Analysis task to the students that they needed to perform using Jupyter Notebook.

Day 5

Date: 11 June, 2021

Time: 10:30 AM to 12:00 PM IST

The final day of the One Week training on Data Analysis using Python begins with Mr. Asit Pandit answering the doubts and queries of the students on assigned previous tasks and core concepts of Data Analysis. Further, he assigned the Final training project, consisting of three different modules to provide the students a wholesome exposure to implement their learnings using Python for Data Analysis.

At the end of the session, students shared their positive experiences, describing how the training helped them expand their knowledge and provided assistance to get hands-on experience of Data Analysis using Python.

Conclusion

The session was concluded by Darsh Patel, Vice-Chairperson, SOU IEEE SB expressing gratitude towards the speakers and the Department of Computer Engineering, Silver Oak College of Engineering & Technology.

The program covered the core as well as advanced concepts of Data Analysis using Python and provided a strong exposure to the students to concoct the technical expertise in the future.

Some glimpse of the event

