INFOSYS CRYPTO VOLATILITY AND RISK ANALYSER

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BATCH NO : 11

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INTERNSHIP DURATION: 40 DAYS

Introduction

The Infosys Internship program began with structured training sessions focused on introducing Python programming fundamentals. These sessions aimed to build a strong foundation in Python, which is essential for understanding programming logic and future project-related work.

This report summarizes the concepts taught during the training sessions and the understanding gained from them.

1. Concepts Taught During Training Sessions

During the training sessions, the mentor introduced the importance of teamwork and collaboration in software development. GitHub was explained as a platform for version control and collaborative project work, and the concept of shared repositories for team-based development was discussed.

Python programming fundamentals were introduced in detail. Python was explained as a high-level, interpreted, interactive, and object-oriented programming language. Its importance and applications in real-world scenarios were discussed, along with an overview of commonly used Python libraries for numerical computation, data handling, and visualization.

The mentor explained basic Python programming concepts such as writing output statements, taking user input, assigning values to variables, and understanding fundamental data types including integers, floats, and strings. The execution flow of simple Python programs was also demonstrated.

Advanced concepts related to string handling and numeric data processing were covered. This included string methods, string formatting, string slicing techniques, and operations on numeric data types such as integers and floating-point numbers.

The process of installing Python, setting up the programming environment, and using platforms such as Jupyter Notebook and Google Collab for code execution was also explained.

3. Activities Performed During Training Sessions

During the training sessions, I actively participated in both individual and group-based activities. I submitted my individual GitHub profile link and was assigned to a project team. I took part in team discussions, and a shared GitHub account was created for collaborative project work.

I practiced Python programming by executing the code examples demonstrated by the mentor. This included writing simple Python programs, working with input and output statements, variables, data types, strings, and numeric operations. I tested and verified program outputs and corrected errors during practice sessions.

I also practiced string manipulation techniques, numeric operations, and formatting concepts using Jupyter Notebook and Google Collab. These hands-on activities helped reinforce the theoretical concepts taught during the sessions.

4. Learning Outcomes

From the training sessions, I gained a clear understanding of collaborative development using GitHub and version control practices. I developed a basic but strong foundation in Python programming, including familiarity with libraries, built-in functions, and data types. The training also improved my logical thinking and problem-solving skills through hands-on coding practice.

5. Conclusion

The training phase of the Infosys Internship provided essential knowledge in Python programming and collaborative development practices. The concepts taught and activities performed during the sessions have built a strong foundation for further learning and future project implementation.