Internship Final Report

Student Name: Yukesh SM
University: Annai Violet Arts and Science College
Major: Computer Science
Internship Duration: June 1st, 2025 – June 30th, 2025
Company: ShadowFox
Domain: Python Development
Mentor: Mr. Hariharan
Coordinator: Mr. Aakash

Objectives

My primary objectives for this internship were to:

1. Strengthen my foundational and advanced skills in Python development.
2. Gain hands-on experience through real-time coding tasks and project assignments.
3. Learn and apply data handling, object-oriented programming, web scraping, and analytical methodologies using Python.

Tasks and Responsibilities

During my internship, I was involved in the following key tasks:

➢ **Beginner-Level Tasks:**
- Wrote scripts using lists, dictionaries, loops, and conditionals.
- Practiced file handling and object-oriented programming.
- Created variables, handled data types, and performed mathematical operations

➢ **Intermediate-Level Tasks:**
- Built a web scraper using the BeautifulSoup library to extract online data.
- Designed a command-line Hangman game incorporating user interaction and loops.

➢ **Advanced-Level Task: Cricket Fielding Performance Analysis:**
- *Collected data for three Indian players: Ravindra Jadeja, Virat Kohli, and Hardik Pandya.*
- *Created a structured dataset with match-level fielding performance: including pick type, throw outcomes, position, and runs saved.*
- *Implemented a Python program to calculate individual performance scores using the weighted formula:*

Learning Outcomes

- Gained confidence in using Python for real-world applications such as data analysis and automation.
- Understood the importance of data collection, transformation, and validation in sports analytics.
- Strengthened my problem-solving and logic-building abilities using Python
- Developed professional practices in version control, documentation, and report writing.

Challenges and Solutions

- **Data Structuring:** Defining an efficient schema for cricket fielding actions was a challenge. This was resolved through trial datasets and refining field definitions.
- **Formula Implementation:** Applying the weighted performance formula correctly required iterative testing and debugging, which improved my understanding of score aggregation.

Conclusion

This internship at ShadowFox allowed me to bridge academic learning with real-world technical application. By working through a well-structured progression from beginner tasks to advanced fielding analytics, I feel well-equipped to handle development and data-driven projects in Python.

Acknowledgments

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This report reflects the integration of academic knowledge with practical skills gained during the internship, highlighting my journey of learning, growth, and development in the field of Python Development.