

Internship Final Report

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| Student | Name: | Parbinder | Singh |
| University: | Central | University | of Jammu |
| Major: | BTech | (Computer | Science and Engineering) |
| Internship | Duration: | 1st July 2025 | - 31st July 2025 |
| Company: | | | ShadowFox |
| Domain: | | Python | Programming |
| Mentor: | | Mr. | Hariharan |
| Coordinator: | Mr. Aakash | | |

Objectives

The objective of this internship was to develop a strong foundation in Python programming and apply these skills to real-world scenarios. The focus was on problem solving, core programming concepts, and project development using Python.

Tasks and Responsibilities

As an intern, I successfully completed 9 beginner-level tasks and 2 intermediate-level tasks under the guidance of my mentor. These tasks covered variables, numbers, lists, conditionals, loops, dictionaries, file handling, object-oriented programming, inheritance, web scraping using BeautifulSoup, and building a functional Hangman game.

Learning Outcomes

During the internship, I gained hands-on experience with Python and understood how to use it effectively for data manipulation, logic building, and project implementation. I also became proficient in using libraries like BeautifulSoup for web scraping and improved my debugging and code-structuring skills.

Challenges and Solutions

A significant challenge was managing input validation and game logic for the Hangman game. I addressed this by breaking the problem into smaller components and using modular functions. Another challenge was handling network errors during web scraping, which I solved by implementing error handling using try-except blocks.

Conclusion

This internship provided me with valuable programming knowledge and practical exposure. It helped me grow as a developer and boosted my confidence to take on more complex Python projects in the future.

Acknowledgments

I would like to express my sincere gratitude to my mentor Mr. Hariharan for his continuous support and guidance. I also thank Mr. Aakash, the internship coordinator, for facilitating a smooth internship experience. Special thanks to ShadowFox for providing this wonderful opportunity.