Module Title

Fundamentals of Data Science

Assessment Weightage & Type

40% of Coursework & Regular

Year

2025

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Assignment Due Date: July 7, 2025

Assignment Submission Date: July 7, 2025

Reflection on the Student Profile Management System Project

The Student Profile Management System project was good learning experience for me where I learned to solve a real-world problem. This had me excited to complete this project. It was difficult task to build a functional system from scratch. I had built a similar project in earlier semester using C++ language but now I have to use Python programming and its libraries such pandas and matplotlib.

Debugging part was difficult with a lot of errors appearing as I run the program to get the required output. The logic created at start seemed to fail and solutions where out of reach. During these times, it was difficult to really find the solution to the problem but in these moments of struggle a deeper resolve emerged. The search for solutions and implementing the knowledge I have gained to solve the complex problems which were a testament to perseverance. It helped me gain experience of confronting challenges and changing the original doubts into a belief to develop capacity to solve problems. The detail the fulfillment of seeing a system go from rough ideas to a functioning device, and the satisfaction of completing it and saving a bit of time. The journey of producing this application influenced my approach towards developing and problem-solving with technology going forward.

This project illustrates how a methodical approach to coding practices and a problem-solving mindset can develop a solution for real-world administrative issues. The project shows how a holistic approach to software development combines ability, attitude and expertise in technical skills, design, and user-experience considerations. The takeaway lessons I learned from this project is to develop resilience, self-directed learning and experience solving complex concepts and bringing them to use in real life. These lessons will be useful and productive for complex software applications in my journey as a computer science student.