

Personal Project Reflection

My Best Efforts and Areas for Improvement

In this project, I put a lot of effort into coding and data analysis. As one of the team members responsible for data processing and machine learning modeling, I mainly worked on data cleaning and building prediction models. Working closely with Guo Tang, I helped complete the technical core of the project. Specifically, I oversaw handling missing values in the dataset and implementing two machine learning models: linear regression and gradient boosting regression.

Throughout the project, I actively participated in writing the proposal, creating presentations, and preparing the final report, showing good teamwork skills.

However, I realize I need to improve my presentation skills. Even though I worked hard on the technical part, I could have done better at clearly explaining our research findings and technical details to others. This reminds me that I need to work on my public speaking skills for future projects.

Most Challenging Part and How I Overcame It

The biggest challenge in this project was the data processing stage. The dataset was hard to work with because it had many missing values, and we weren't sure what direction to take with our analysis. To overcome these challenges, I:

1. Carefully studied the dataset's structure and features
2. Had detailed discussions with my teammates, especially Guo Tang, about the best ways to handle the data
3. Tried different methods to deal with missing values until we found the best one
4. Tested various analysis approaches until we found the most valuable research direction

Team Member Contributions

Yifan Wang

Yifan played a key role in writing project documents. He mainly worked on the project proposal and final report and was good at turning technical content into clear written explanations. His writing skills helped make our reports well-organized and convincing.

Guo Tang

As my main coding partner, Guo showed great programming skills. We worked together on data processing and machine learning models. Her programming abilities and deep understanding of data were very helpful for the project.

Siyuan Chen

Siyuan focused on project documentation and summary sections. He worked closely with Yifan to ensure high-quality proposal and final report completion. He also helped a lot with overall project planning and keeping us on schedule.

My Personal Contribution

I mainly worked on:

- Cleaning and preparing the data
- Creating linear regression and gradient boosting regression models
- Helping write the proposal and final report
- Helping prepare project presentations

Summary

This project taught me how important data processing is in data science projects and made me realize I need to work on my presentation skills. Through teamwork, we successfully finished this challenging project, with everyone using their strengths. This experience not only improved my technical skills but also showed me what I need to work on in the future.