

Weekly Report - 5

As I am nearing the end of my project, this week I spent majority of my time organizing my work.

Accomplishments:

1. Organizational Structure Enhancement:

This week was dedicated to refining the organizational structure of the project. I strategically divided the project into distinct notebooks, optimizing efficiency and enhancing clarity for future reference.

I segregated the project into three primary notebooks:

- **Dataset Construction and Pre-processing Notebook:** This notebook contains the step-by-step process of generating the final dataset through joins, merges, and pre-processing techniques.
- **Exploratory Data Analysis Notebook:** This notebook consists of a thorough exploratory data analysis, providing insights into the patterns and relationships within the data.
- **Modelling and Analysis Notebook:** Focused on model development and evaluation, this notebook has the implementation and analysis of the proposed machine learning models. By consolidating all modelling efforts into a dedicated repository, I aim to streamline model comparison and refinement processes.

2. GitHub Repository Enhancement:

With a potential for future development, I initiated the preparation of dedicated folder within my GitHub repository. This repository extension is tailored to accommodate forthcoming iterations and enhancements beyond the scope of the capstone project. By structuring the repository in this manner, I aim to facilitate seamless transition and continuity in project evolution post-capstone.

3. Preparation for Demonstration:

- Significant progress was made towards the creation of the demonstration poster, a pivotal component of the project's culminating activities.
- Leveraging insights gleaned from the EDA phase, I curated relevant graph screenshots and mentioned some key findings into concise bullet points.
- With a focus on poster completion, I aim to finalize the design and content by the weekend, thereby ensuring timely readiness for the demonstration.

Next Steps:

- Finalize and publish organized project notebooks to GitHub repository.
- Complete the demonstration poster, incorporating graphical representations and summaries of key findings.
- Prepare for the upcoming demonstration.