

Transition Plan

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1 Task1

1.1 Description

Cleaned and processed the Cotton dataset, ensuring it was free of errors and inconsistencies before reattaching it for submission.

1.2 Link

Link to Task1

2 Task2

2.1 Description

Researched socio-economic factors affecting price prediction, including farmer education, family size, and farm size. Produced a detailed report following a structured format and included relevant datasets.

2.2 Link

Link to Task2

3 Task3

3.1 Description

Follow up on Task 2. Created and distributed surveys in English and Urdu to gather additional data for the socio-economic factors research due to the lack of publicly available data.

3.2 Link

Link to Task3

4 Task4

4.1 Description

Worked with the rest of the group to develop comprehensive wireframes for a mobile application using Figma. Submitted high-quality wireframes covering all aspects of the application.

4.2 Link

Link to Task4



5 Task5

5.1 Description

Completed high-fidelity wireframes and detailed flows for the Rep and Admin sections of the mobile application. Also conducted an analysis of a WhatsApp group to identify potential customers and submitted an Application Exploration Report on Coinbase.

5.2 Link

Link to Task5

6 Task6

6.1 Description

Performed exploratory data analysis (EDA) on Cotton dataset, conducted feature engineering, and developed a plan for integrating external factors into the prediction model.

6.2 Link

Link to Task6

7 Task7 - Article

7.1 Description

Summarized the assigned article, extracted key findings, identified relevant algorithms, and gathered other useful information to be applied to the ongoing price prediction project.

7.2 Link

Link to Task7 - Article

8 Task7 - Models

8.1 Description

Used historical data to predict the 5th-year price of commodities using various regression models. Compared predicted prices with actual prices, visualized performance, and documented key observations and performance metrics.

8.2 Link

Link to Task7 - Models



9 Task7 - PPT

9.1 Description

Identified and analyzed two GitHub projects related to price prediction, focusing on projects with and without weightages. Presented findings in a PowerPoint presentation with visual aids for better understanding.

9.2 Link

Link to Task7 - PPT

10 Task8

10.1 Description

Researched and identified five commodity experts, reached out to gather their insights on external factors influencing commodity prices, and arranged sessions to discuss their suggestions in detail.

10.2 Link

Link to Task8

11 Task9

11.1 Description

Developed a bot to handle and extract non-quantifiable factors, tested its accuracy, and documented any issues or improvements needed. Coordinated communication with commodity experts and contributed to the transition plan and comprehensive commodity analysis.

11.2 Link

Link to Task9

12 Task10

12.1 Description

Redid the price prediction model using AgFlow's instructions, focusing on data interpolation and generalization to provinces. Ensured high model accuracy without including external factors, and documented performance improvements.

12.2 Link

Link to Task10