

Initial Project Planning Template

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| Date | 23 September 2024 |
| Team ID | LTVIP2024TMID24997 |
| Project Name | Cereal Analysis Based on Ratings by using Machine Learning Techniques |
| Maximum Marks | 4 Marks |

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create a product backlog and sprint schedule

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Priority | Team Members | Sprint Start Date | Sprint End Date (Planned) |
|----------|---------------------------------|-------------------|---|----------|----------------------------|-------------------|---------------------------|
| Sprint-1 | Data Collection and Preparation | USN-1 | Collect and clean cereal data. | High | Akash and Tharun | 23/09/2024 | 26/09/2024 |
| Sprint-1 | Data Collection and Preparation | USN-2 | Explore dataset for key features. | High | Akash | 23/09/2024 | 26/09/2024 |
| Sprint-2 | Data Collection and Preparation | USN-3 | Handle missing values and outliers. | Medium | Sravya and Bhavani | 23/09/2024 | 26/09/2024 |
| Sprint-2 | Model Training | USN-4 | Train machine learning models to predict ratings. | High | Akash,Tharun and Bhavani | 27/09/2024 | 30/06/2024 |
| Sprint-3 | Model Evaluation and Tuning | USN-5 | Evaluate models and pick the best one. | High | Sravya, Tharun and Bhavani | 27/06/2024 | 30/06/2024 |

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|---------------|--------------------------------------|--------------------------|--|-----------------|---------------------------|--------------------------|----------------------------------|
| Sprint-3 | Model Evaluation and Tuning | USN-6 | Tune model hyperparameters. | Medium | Tharun and Bhavani | 27/09/2024 | 30/09/2024 |
| Sprint-4 | Insights and Reporting | USN-7 | Generate insights and visualizations for users. | Medium | Akash | 27/09/2024 | 30/09/2024 |
| Sprint-4 | Documentation | USN-8 | Document the project process and findings. | Medium | Sravya and Bhavani | 27/09/2024 | 30/09/2024 |
| Sprint-5 | Application Building | USN-9 | Design the app's user interface. | High | Akash, Sravya and Tharun | 1/10/2024 | 5/10/2024 |
| Sprint-5 | Application Building | USN-10 | Implement the backend to handle data and predictions. Integrate the ML model with the app for real-time predictions. | High | Akash, Tharun and Bhavani | 1/10/2024 | 5/10/2024 |
| Sprint-6 | Application Building | USN-11 | Test the app for functionality and user-friendliness and deploy. | High | Sravya and Tharun | 6/10/2024 | 10/10/2024 |