

**Initial Project Planning Template**



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| Date | 15 July 2024 |
| Team ID | 740684 |
| Project Name | SpaceX Falcon 9 First Stage Landing Success Predictor |
| Maximum Marks | 4 Marks |

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

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

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| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** | **Sprint Start Date** | **Sprint End**  **Date**  **(Planned)** |
| Sprint-1 | Data  Collection and  Preprocessing | USN-1 | As a developer, I can collect and preprocess SpaceX Falcon 9 launch data for model training. | 3 | High | Mahesh | 15/06/2024 | 17/06/2024 |
| Sprint-1 | Exploratory  Data Analysis (EDA) | USN-2 | As a data analyst, I can perform EDA on Falcon 9 landing data to understand patterns and correlations | 3 | Medium | Mahesh | 17/06/2024 | 20/06/2024 |
| Sprint-1 | Feature  Engineering | USN-3 | As a data analyst, I can engineer features from the Falcon 9 launch  data for better predictive performance. | 3 | Medium | Akhila | 20/06/2024 | 22/06/2024 |





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| .Sprint-2 | Model  Development | USN-3 | As a developer, I can develop a machine learning model to predict  Falcon 9 first stage landing success. | 5 | High | Akhila | 22/06/2024 | 25/06/2024 |
| Sprint-2 | Model  Evaluation | USN-4 | As a developer, I can evaluate the accuracy and performance of the developed model. | 3 | Medium | Chandu | 30/06/2024 | 03/07/2024 |
| Sprint-3 | Web Interface | USN-5 | As a user, I can interact with a web interface to input launch parameters and get landing success prediction. | 2 | High | Chandu | 03/07/2024 | 05/07/2024 |
| Sprint-4 | Deployment and Testing | USN-6 | As a developer, I can deploy the predictor as a Flask web application and conduct comprehensive testing. | 3 | High | Adithya | 07/07/2024 | 09/07/2024 |