 

Initial Project Planning Template

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| Date | 15 October 2024 |
| Team ID | 739855 |
| Project Name | Predicting Diamond Prices With ANN Using DeepLearning |
| Maximum Marks | 4 Marks |

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

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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 Ingestion | USN-1 | As a user, I can upload a dataset containing diamond attributes (e.g., carat, cut, clarity, color) for analysis. | 2 | High | Pranadeep, Sonalika | 15-10-24 | 20-10-24 |
| Sprint-1 |  | USN-2 | As a user, I can validate the  uploaded dataset to ensure it meets the required format and contains no  missing values. | 1 | High | Sonalika, Pranadeep | 20-10-24 | 26-10-24 |
| Sprint-2 | Model  Development | USN-3 | As a user, I can select a machine  learning model to predict diamond prices based on uploaded data. | 2 | Low | Abdul jabbar,  Varshith | 27-10-24 | 30-10-24 |
| Sprint-2 |  | USN-4 | As a user, I can view the  performance metrics of the model  (e.g., accuracy, mean squared error) after training. | 2 | Medium | Sonalika, Pranadeep,  AbdulJabbar | 31-10-24 | 4-11-24 |

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| Sprint-3 | Prediction Interface | USN-5 | As a user, I can input individual diamond attributes and get a  predicted price. | 1 | High | Pranadeep,  Sonalika | 4-11-24 | 9-11-24 |
| Sprint-3 |  | USN-6 | As a user, I can upload a batch of diamond attributes and receive  predicted prices for all entries. | 2 | Low | Abdul jabbar,  Varshith | 10-11-24 | 14-11-24 |
| Sprint-4 | Visualization and Reporting | USN-7 | As a user, I can view a graphical comparison of actual versus  predicted diamond prices for  evaluation. | 1 | Medium | Pranadeep, Sonalika | 15-11-24 | 16-11-24 |
| Sprint-4 |  | USN-8 | As a user, I can download a report  summarizing the model's predictions and performance metrics. | 2 | High | Sonalika,  Pranadeep | 16-11-24 | 18-11-24 |