**Initial Project Planning Template**

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| Date | 18 June 2025 |
| Team ID | SWTID1749906821 |
| Project Name | Neural Networks Ahoy: Cutting-edge Ship Classification for Maritime Mastery |
| Maximum Marks | 4 Marks |

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

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** | **Sprint Start Date** | **Sprint End Date (Planned)** |
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| Sprint-1 | Data Collection & Preprocessing | NN-1 | Collect oceanographic data (currents, weather) | 3 | High | Khushi Pal | 16 June 2025 | 18 June 2025 |
| Sprint-1 | Data Collection & Preprocessing | NN-2 | Clean and normalize sensor data (AIS, radar) | 2 | High | Priyam Jain | 18 June  2025 | 19 June  2025 |
| Sprint-1 | Data Collection & Preprocessing | NN-3 | Perform EDA on maritime datasets | 1 | Medium | Khushi Pal | 19 June 2025 | 20 June 2025 |
| Sprint-2 | Model Development | NN-4 | Train neural network for route optimization | 3 | High | Sade Mudit Raj | 20 June 2025 | 22 June 2025 |
| Sprint-2 | Model Development | NN-5 | Evaluate model accuracy using test data | 2 | High | Raja Vignesh Goud | 22 June 2025 | 26 June 2025 |
| Sprint-3 | Model Tuning | NN-6 | Optimize hyperparameters for hazard prediction | 3 | Medium | Priyam Jain | 26 June 2025 | 28 June 2025 |
| Sprint-3 | Model Tuning | NN-7 | Test model with real-time simulation data | 2 | Medium | Sade Mudit Raj | 28 June 2025 | 29 June 2025 |
| Sprint-4 | System Integration | NN-8 | Build API for ship dashboard integration | 2 | High | Raja Vignesh Goud | 29 June 2025 | 2 July 2025 |
| Sprint-4 | Deployment | NN-9 | Deploy model to cloud for fleet access | 3 | High | Raja Vignesh Goud | 2 July 2025 | 5 July 2025 |