**Project Initialization and Planning Phase**

| Date | 20 June 2025 |
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| Team ID | SWTID1749906821 |
| Project Name | Neural Networks Ahoy: Cutting-edge Ship Classification for Maritime Mastery |
| Maximum Marks | 3 Marks |

**Define Problem Statements (Customer Problem Statement Template):**

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| **Problem**  **Statement (PS)** | **I am**  **(Customer)** | **I’m trying to** | **But** | **Because** | **Which makes me feel** |
| PS-1 | A ship operator | Optimize ship navigation and reduce fuel consumption | Current systems lack real-time adaptability to changing sea conditions | Existing solutions rely on static models and manual adjustments | Frustrated and concerned about inefficiency and high cost |
| PS-2 | A maritime safety officer | Ensure safer voyages by predicting and avoiding potential hazards | Traditional systems cannot accurately predict dynamic risks like weather shifts or obstacles | Predictive tools are outdated and not integrated with real-time data | Anxious about preventable accidents and delays |
| PS-3 | A fleet manager | Monitor ship health and predict maintenance needs | Current diagnostics rely on reactive repairs, causing downtime | Manual inspections are slow and often miss early warnings | Stressed about unexpected breakdowns and delays |
| PS- 4 | A cargo logistics coordinator | Minimize delays in shipping schedules | Unpredictable route disruptions (weather, traffic) increase delivery times | Existing systems don’t dynamically reroute ships | Helpless about missed deadlines and customer complaints |