

Project Design Phase-I
Proposed Solution Template

Date	18 October 2023
Team ID	Team-592965
Project Name	Project - Ship Classification
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The objective is to develop a deep learning model for ship classification that maximizes accuracy. Accurate ship classification is vital for maritime traffic monitoring and coastal defense warnings, and the problem is to design a model that can achieve the highest possible classification accuracy
2.	Idea / Solution description	We can accurately classify ships by using deep learning techniques, like transfer learning, or other models. Continuous learning from more data helps improve accuracy. This system provides real-time ship monitoring and collaborates with other systems for enhanced maritime safety.
3.	Novelty / Uniqueness	The novelty in this solution lies in its accurate ship classification through deep learning techniques like transfer learning and other models. What makes it unique is the system's ability to continuously learn from data, leading to improved accuracy.
4.	Social Impact / Customer Satisfaction	This solution enhances maritime safety, coastal defense, and traffic management, thereby safeguarding lives, national security, and efficient transportation. Its environmental protection aspect ensures the well-being of marine ecosystems.

5.	Business Model (Revenue Model)	Generate revenue through subscriptions, pay-per-use, licensing, consulting, data sales, maintenance, partnerships, and advisory services catering to maritime authorities, shipping companies, and coastal defense agencies.
6.	Scalability of the Solution	This solution is highly scalable, adapting to increased data volume, computational resources, geographical expansion, integration capabilities, user accessibility, and continuous learning, ensuring its sustainability and adaptability for diverse applications.