Data Collection and Preprocessing Phase

Date	15 April 2024
Team ID	Team-738165
Project Title	Neural Networks Ahoy: Cutting-Edge Ship Classification for Maritime Mastery
Maximum Marks	2 Marks

Data Collection Plan & Raw Data Sources Identification Template

The project aims to develop a ship classification system to accurately identify various types of ships for monitoring maritime traffic and enhancing coastal defense early warnings.

Data Collection Plan Template

Section	Description
Project Overview	"Neural Networks Ahoy: Cutting-Edge Ship Classification for Maritime Mastery" is a deep learning project aimed at developing an advanced ship classification system. The primary objective is to accurately identify various types of ships from images, catering to the needs of maritime traffic monitoring and coastal defense early warnings.
Data Collection Plan	Identify existing datasets containing images of ships categorized into Aircraft Carrier, Bulkers, Car Carrier, Container Ship, Cruise, DDG, Recreational, Sailboat, Submarine, Tug. Explore open data repositories, academic sources, and industry partnerships to access relevant datasets. Evaluate the quality, quantity, and diversity of available datasets to ensure they align with project requirements.
Raw Data Sources Identified	Kaggle: Explore Kaggle datasets related to maritime imagery and ship classification. Look for datasets containing labeled ship

	images categorized into Cargo, Carrier, Military, Cruise, and Tankers.

Raw Data Sources Template

Source Name	Description	Location/URL	Format	Size	Access Permissions
Kaggle Dataset	The Dataset consist of 10 categories of Ships - Aircraft Carrier, Bulkers, Car Carrier, Container Ship, Cruise, DDG, Recreational, Sailboat, Submarine, Tug	https://www.kaggle.com/datasets/oleksandershevchenko/ship-classification-dataset	CSV	475MB	Public