

Sonar Rock Vs Mine Prediction

A Sonar Rock vs Mine Prediction project is a classic machine learning classification task where the goal is to classify sonar signals as either "rock" (like seabed, underwater cliffs) or "mine" (e.g., explosive mines) based on the sonar return signal data. This problem is especially relevant in underwater exploration, military defense, and autonomous naval systems.

Project Overview

Objective: Build a machine learning model that can predict whether an object detected by sonar is a rock or a mine.

Dataset: The most popular dataset for this task is the "Sonar" dataset from the UCI Machine Learning Repository.

Work Flow

