

SONAR Rock VS Mine Prediction

WORKFLOW:

1. Collect the Sonar Data

We first collect the sonar dataset that contains information about different objects.

2. Pre-Process the Data

Clean and prepare the data so it can be used by the machine learning model.

3. Split the Data into Training and Testing

Divide the dataset into two parts:

- Training data: Used to train the model.
- Testing data: Used to check how well the model works.

4. Train the ML Model

We use a Logistic Regression model for this task. Logistic Regression works well for binary classification problems, where we need to predict one of two outcomes (in this case, ROCK or MINE).

5. Get the Trained Model

After training, we get a model that can recognize whether the object is a rock or a mine.

6. Predict on New Data

If we feed new sonar data into the trained model, it will predict whether the object is a ROCK or MINE.