

This project builds a Linear Regression model to predict house prices using the California Housing dataset (similar to Boston Housing).

Features Used

The dataset contains:

Median income

House age

Avg rooms & bedrooms

Population

Latitude & Longitude

And other location-based features

Steps in the Project

- Load Dataset using `fetch_california_housing()`
- Split Data into training and testing sets
- Train Linear Regression Model
- Predict House Prices
- Evaluate Model
- Mean Squared Error (MSE)
- R^2 Score
- Display Coefficients for all features

Model Evaluation Metrics

MSE: Measures prediction error

R^2 Score: Shows how well the model fits the data

Higher R^2 → Better model performance