Boston House Price Prediction Project  
  
Introduction:

The Boston House Price Prediction project aims to develop a regression model to predict the prices of houses in Boston based on various attributes such as crime rate, the number of rooms, and proximity to employment centers.

Dataset:

The dataset contains information about houses in Boston, including:

Crime rate

Number of rooms

Distance to employment centers

Accessibility to highways

Objective:

To build a regression model that accurately predicts house prices (MEDV) using the provided dataset.

Methodology:

Data Preprocessing

Handle missing values

Standardize features using the z-score method

Scale features for better model performance

Model Training

Linear Regression

Lasso Regression

Gradient Boosting Regressor

Evaluation

Metrics used: Mean Squared Error (MSE), R² Score

Best Model: Gradient Boosting Regressor ;