

Housing Price Prediction - ML Project Report

This project demonstrates the use of Linear Regression to predict housing prices based on features such as area, number of bedrooms and bathrooms, and age of the house.

Load and Explore the Data

- Dataset: sample_housing_data.csv
- Features: Area (sqft), Bedrooms, Bathrooms, Age (years)
- Target: Price

Data Visualization

Visualized relationships between features and price using scatter plots and correlation heatmap.

Train-Test Split & Model Training

Split data into 80% training and 20% testing. Trained a Linear Regression model on training data

Model Evaluation

Made predictions on test data. Calculated evaluation metrics:

Mean Squared Error: 110829179.80

R² Score: -0.11

Actual vs Predicted Plot:

