**Housing Price Prediction**

**Overview**

This project predicts house prices using the **Ames Housing dataset**. The model is trained using a **Random Forest Regressor** and evaluates performance with RMSE and R² metrics.

**Features**

* **Data Cleaning**: Handling missing values
* **Exploratory Data Analysis (EDA)**: Visualizing trends
* **Feature Engineering**: Selecting relevant numerical features
* **Machine Learning Model**: Random Forest Regressor
* **Performance Evaluation**: RMSE and R² Score

**Dataset**

The dataset is sourced from the Ames Housing dataset, available here.

**Technologies Used**

* Python
* pandas, NumPy
* seaborn, Matplotlib
* scikit-learn

**Results**

The model achieves **a low RMSE and a high R² score**, demonstrating its effectiveness in predicting house prices. Below is a visualization of actual vs. predicted prices:

**Contributing**

Feel free to contribute by improving feature engineering, trying different models, or enhancing visualizations.