

Task 3: Linear Regression - House Price Prediction

Objective:

To build and evaluate a simple linear regression model that predicts house prices based on area.

Steps Performed:

- Loaded and cleaned the dataset
- Performed train-test split
- Trained a Linear Regression model using `scikit-learn`
- Evaluated performance (MAE, MSE, R^2)
- Visualized predictions vs actual values

Files Included:

- `linear_regression.py`: Code to run the regression
- `regression_plot.png`: Visualization of model predictions
- Add your dataset: `housing.csv` from Kaggle

Dataset Source:

[Kaggle: House Price Prediction Dataset] (<https://www.kaggle.com/datasets/harishkumardatalab/housing-price-prediction>)