# Project Description Document

## Linear Regression Model

### General Information on Dataset

- \*\*Dataset Name:\*\* House Price Dataset

- \*\*Number of Features:\*\* 1

- \*\*Target Variable:\*\* House Price

- \*\*Total Number of Samples:\*\* 4523

### Implementation Details

- \*\*Data Splitting:\*\*

- Training Size: 70%

- Testing Size: 30%

- Random State: 0

- \*\*Model Used:\*\*

- Linear Regression

### Results Details

- \*\*Testing Data Results:\*\*

- R-Square Value: 0.9251445985678679

- Mean Absolute Error: 79367.10965216269

- Mean Squared Error: 9923148318.120808

- Root Mean Squared Error: 99615.00046740354

- \*\*Model Evaluation:\*\*

- Train R-Square Value: 0.915806383901728

### Visualization

- \*\*Regression Plot:\*\*

- [Include the regression plot]