Executive Summary

The project aims to analyse the House Price Dataset and identify key patterns, correlations, and distributions of housing attributes affecting sale prices using Exploratory Data Analysis (EDA).

It includes

- **Data Exploration & Cleaning**
- **Exploratory Data Analysis (EDA)**
- **Findings & Insights**

Key Findings

1. **House Size & Price**

   o **GrLivArea and TotalBsmtSF strongly correlate with sale price—larger homes sell for more.**

   o **Total House Square Footage (above-ground + basement) enhances predictive power.**

2. **House Age & Quality**

   o **Newer homes and those with higher Overall Quality (OverallQual) command higher prices.**

   o **Garage Area also moderately impacts pricing.**

3. **Price Distribution**

   o **Prices are right-skewed, with a few expensive properties pulling the average up.**

   o **A log transformation may help normalize distribution.**

Conclusion

House size, quality, and age are the main price drivers. Feature engineering improves analysis, and outliers should be considered in future modeling.