

# Visualizing Housing Market Trends: An Analysis of Sale Prices and Features

## Project Dashboard and Data Story

### Dashboard 1: Market Overview

- KPIs: Average Sale Price, Median Sale Price, Price per Square Foot, Total Sales Volume, Year-over-Year Growth Rate.
- Visualizations: Line Chart (Price Trend), Bar Chart (Sales Volume), Map (Price by Region), Donut Chart (Property Type Distribution).
- Filters: Year, Location, Property Type, Bedrooms, Price Range.

### Dashboard 2: Feature Impact Analysis

- Scatter Plot: Square Footage vs Sale Price.
- Box Plot: Bedrooms vs Price Distribution.
- Bar Chart: Average Price by Property Type.
- Heatmap: Correlation Between Variables.
- Line Chart: Price Trend by Property Age.

### Dashboard 3: Regional & Investment Insights

- Map: High vs Low Growth Areas.
- Bar Chart: Top 10 Expensive Neighborhoods.
- Line Chart: Region-wise Growth Trends.
- Table: ROI & Price Appreciation Summary.

## Data Story Flow

- Story 1: Market Pulse – Show overall price growth trends and market shifts.
- Story 2: What Drives Price – Identify key features influencing sale price.

- Story 3: Location Matters – Compare regional performance.
- Story 4: Investment Opportunities – Highlight high ROI areas.

## **Final Deliverables**

- Three Interactive Dashboards.
- Story Presentation (5–7 Slides).
- Insight Report.
- Executive Summary.