

# Report:-

Project Title:-

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

Dashboard Tableau Public Link:-

<https://public.tableau.com/app/profile/donthu.harshavardhan/viz/HousingmarketvisualizationProjectDashboard/HousingTrendsDashboard?publish=yes>

Story Tableau Public Link:-

<https://public.tableau.com/app/profile/donthu.harshavardhan/viz/HousingmarketvisualizationProjectStory/Story1?publish=yes>

## Report of the Visualizations:-

### Scenario 1 – Overall Data Overview:-

A summary of the entire dataset highlighting:

- **Average Sale Price:** ₹511,619
  - **Total Houses Analysed:** 21,609
  - **Total Basement Area:** 38,643,798 sq. Ft
- This overview sets the foundation by giving a snapshot of the data's scale.
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### Scenario 2 – Total Sales by Years Since Renovation:-

This bar chart shows sales volume grouped by **binned sale price** and **years since renovation**.

- Recently renovated homes generally show higher sales in the mid-price range.
  - Colour intensity indicates renovation recency, with greener bars showing more recent work.
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### Scenario 3 – Distribution of House Age by Renovation Status:-

A pie chart displays house age grouped by renovation status.

- Helps compare how many houses were **renovated vs not renovated** across different age bins.
  - Useful for understanding renovation trends in older properties.
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## Scenario 4 – House Age Distribution by Number of Bathrooms, Bedrooms, and Floors:-

A grouped bar chart compares three home features (bathrooms, bedrooms, floors) against **age bins**.

- Newer houses tend to have **more rooms**, while older houses are simpler in structure.
- Reveals evolving buyer preferences and design standards over time.

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### Conclusion:-

These visualizations help identify trends and patterns that impact housing prices, renovation decisions, and structural features. They can support strategic planning for marketing, pricing, and renovation investment decisions.