

Project Development Phase
Model Performance Test

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| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID49022 |
| Project Name | Visualizing Housing Market Trends: An Analysis of Sale Prices and Features using Tableau |
| Maximum Marks | |

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

| S.No | Parameter | Screenshot / Values |
|------|--------------------------------|---|
| 1. | Data Rendered | Source: Zillow API (10,000+ records). Fields: Price, SqFt, Bedrooms, Location, Year. |
| 2. | Data Preprocessing | Steps: <ul style="list-style-type: none">- Removed outliers (price > \$5M).- Normalized "Price/SqFt".- Handled missing values (mean imputation). |
| 3. | Utilization of Filters | Filters Applied: <ul style="list-style-type: none">- Year (2010–2025).- Zip Code.- Bedrooms (1–5+). |
| 4. | Calculation Fields Used | Fields: <ul style="list-style-type: none">- Price/SqFt = $\text{SUM}(\text{Price}) / \text{SUM}(\text{SqFt})$.- YoY Growth = $(\text{Current Year Price} - \text{Previous Year Price}) / \text{Previous Year Price}$. |
| 5. | Dashboard Design | Visualizations: <ul style="list-style-type: none">- 1 Geographic Map (Price heatmap).- 2 Scatter Plots (Price vs. SqFt, Price vs. Bedrooms).- 1 Time Series (Price trends).- 1 Summary Table (Key metrics). |
| 6. | Story Design | Story Points: <ul style="list-style-type: none">- 3 Interactive Pages (Trends, Correlations, Regional Analysis).- Annotations: Highlighted 2020 market dip. |