Project Development Phase

Model Performance Test

Date	29/06/25
Team ID	LTVIP2025TMID47431
Project Name	Visualizing housing market trends: an analysis of sale prices and features
Maximum	
Marks	

Model Performance Testing:

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

S.No	Parameter	Screenshot / Values
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1.	Data Rendered	The dataset used contains housing sales data with fields such as Sale Price, Number of Bedrooms, Bathrooms, No. of Cars in Garage, House Age, Condition, Renovation Year, and others. The data was provided in .csv format and includes derived and transformed columns suitable for advanced analytics and visualizations in Tableau.
2.	Data Preprocessin g	 Before importing the data into Tableau, preprocessing was done using Python (Pandas). The following steps were performed: Removed null or missing values. Renamed columns for clarity (e.g., "No of Bedrooms" → "Bedrooms"). Created calculated fields Generated dummy variables for house conditions and renovation status. Transformed categorical fields to improve Tableau usability. The final cleaned dataset was stored and imported into Tableau for visualization.

3.	Utilization of Filters	Multiple filters were implemented in Tableau to improve interactivity and user exploration. These include:
		Number of Bedrooms
		Number of Bathrooms
		House Condition
		Renovation Year
		Garage cars
		Sale Price
		These filters allow users to drill down and compare trends
		across different property types and regions.
4	Calculated Fields Used	Several calculated fields were created in Tableau to enhance analysis and interactivity:
		SalePriceBin → Binning Sale Price into ₹100,000 intervals
		 Ever_Renovated_Yes → Dummy field to identify renovated homes
		 AvgPrice → AVG([SalePrice]) for grouped insights
		 HouseAge → Difference between year built and sale date if available
		(or derived field if pre-calculated)
		These fields enable comparisons across pricing, condition, and space
		utilization.

