Project Development Phase

Model Performance Test

Date	25 July 2025
Team ID	PNT2025TMID08397
Project Name	Housing Price Analysis & Prediction

Model Performance Testing:

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

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	• **Table:** Transformed_Housing • **Rows:** 21,609 (total properties) • **Fields:** – SalePrice – YearsSinceRenovation – Renovated (Y/N) – WaterView (Y/N) – Condition (Excellent, Fair, Good, Okay) – Area • [Count=21,609; Avg Sale=511,619; Renovated=4.23%; WaterView=75.43%; Condition Excellent=1,701; Area sum=38,643,798]
1.	Data Preprocessing	• **Calculated** YearsSinceRenovation = YEAR([SaleDate]) - [YearRenovated] • **Binned** SalePrice into fixed-size bins (250K–650K) • **Formatted** AgeOfHouse into decade bins (41–50, 51–56, … 71–76) • **Cleaned** missing values in Condition and WaterView by replacing nulls with “Unknown”
3.	Utilization of Filters	• **Quick filters** on NoOfBedrooms (multi-select) • **Context filter** on YearsSinceRenovation bin • **Parameter control** for SalePrice bin slider • **Dashboard filter action** synchronized across all sheets for Bedrooms and SalePrice
4.	Calculation fields Used	1. Avg Sale Price = AVG([SalePrice]) 2. PercentRenovated = SUM(IF [Renovated]="Y" THEN 1 ELSE 0 END)/COUNT(*) 3. CountOfYearsSinceRenovation = COUNT([YearsSinceRenovation]) 4. WaterViewPct = SUM(IF [WaterView]="Y" THEN 1 ELSE 0 END)/COUNT(*) 5. ConditionCategory (string grouping of Condition values) 6. AreaFromBase = SUM([Area])
5.	Dashboard design	**No of Visualizations/Graphs:** 5 • **KPI header** (6 metrics) • **Bar chart**: Count by AgeOfHouse bins × NoOfBedrooms • **Table**: Condition vs. Count • **Pie chart**: Distribution by Renovated (Y/N) • **Histogram**: Avg Sale Price by SalePrice bins
6	Story Design	No of Story - 2