🖿 Loading data from: C:\Users\Arushi Sharma\Documents\retail_demand_forecasting\data\features_rossmann.parquet

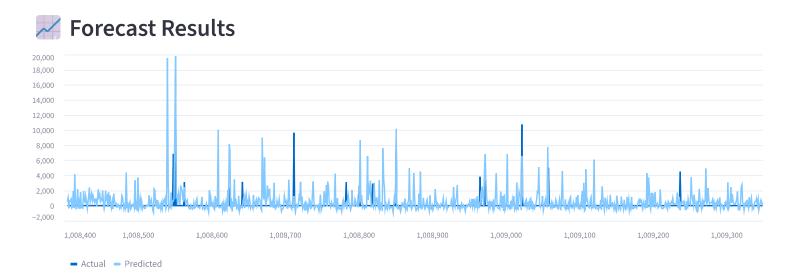


Retail Demand Forecasting Dashboard

Dataset Overview

Shape: (1009404, 29)

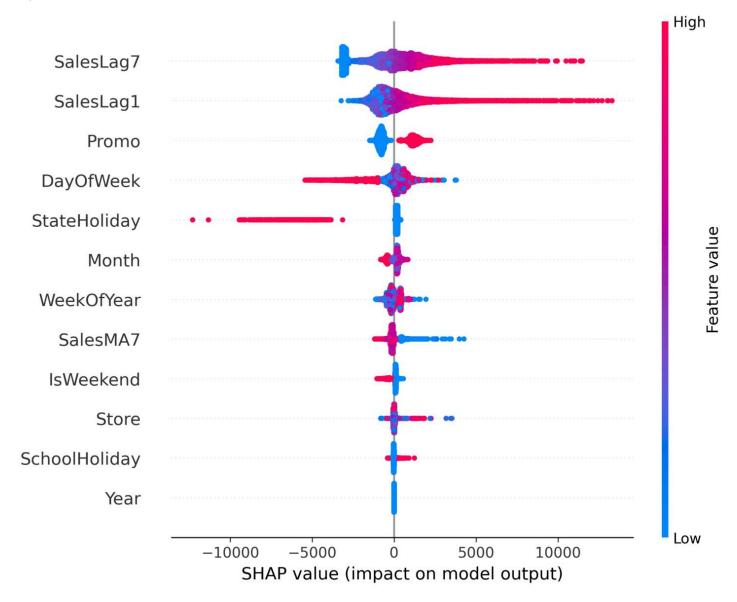
	Store	DayOfWeek	Date	Sales	Customers	Open	Promo	StateHoliday	SchoolHoliday	StoreType	Assortment	CompetitionDistance	CompetitionOp
0	1	4	2015-07-24	3706	459	1	0	0	0	С	а	1270	
1	2	4	2015-07-24	3854	468	1	0	0	1	a	а	570	
2	3	4	2015-07-24	5080	607	1	0	0	1	a	а	14130	
3	4	4	2015-07-24	8322	1108	1	0	0	1	С	С	620	
4	5	4	2015-07-24	3815	485	1	0	0	1	a	а	29910	
5	6	4	2015-07-24	3804	454	1	0	0	1	a	а	310	
6	7	4	2015-07-24	9203	1062	1	0	0	1	a	С	24000	
7	8	4	2015-07-24	4917	558	1	0	0	1	a	а	7520	
8	9	4	2015-07-24	5464	546	1	0	0	1	a	С	2030	
9	10	4	2015-07-24	6152	603	1	0	0	1	a	a	3160	



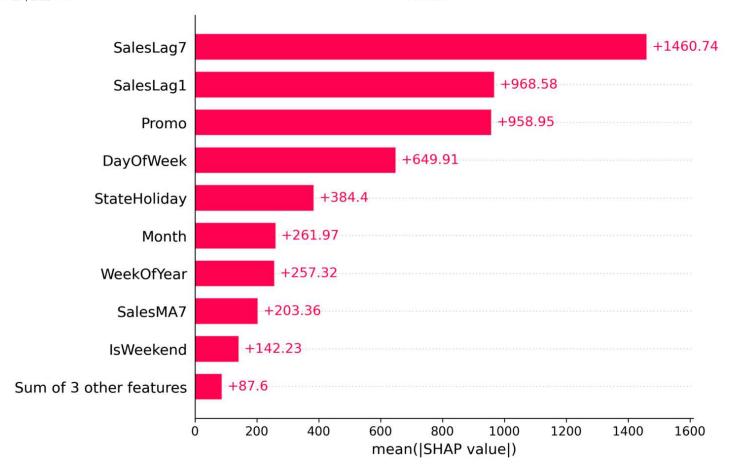
SHAP Explainability

SHAP Summary Plot

localhost:8501/#forecast-results



SHAP Bar Plot



Price Simulation

This section simulates the impact of price changes (±10%, ±20%) on predicted sales.

→ Price Simulation – Impact on Predicted Sales

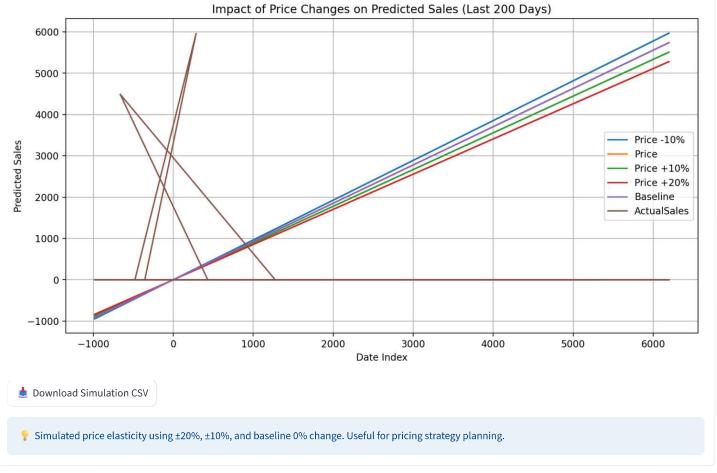
Forecast Simulation Based on Price Changes

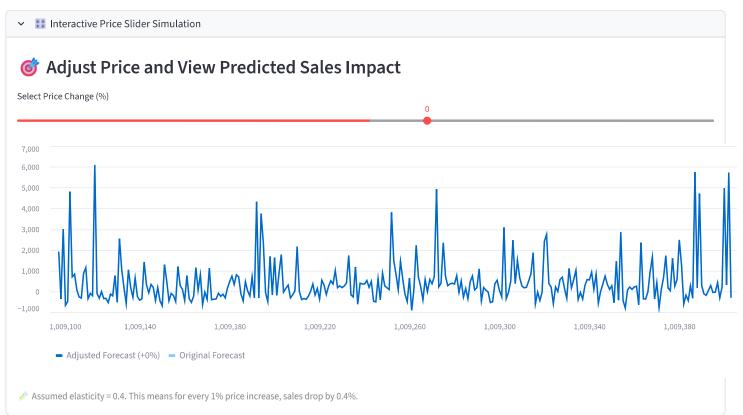
✓ Simulation results loaded.

Simulated Sales Under Price Change Scenarios

Model was trained without Price to avoid leakage. Price was added later for simulation only.

localhost:8501/#forecast-results 3/5





localhost:8501/#forecast-results 4/5

localhost:8501/#forecast-results 5/5