

Scenario 1: Excluding the external Features

Scenario 2: Including the external Features (Promo + Holiday)

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--- Baseline Model Comparison Excluding Extra Features ---

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	RMSE	MAE
XGBoost	41.767511	18.721055
Linear Regression	41.553979	19.146951
Random Forest	42.290362	19.914100

Best Baseline Model: XGBoost

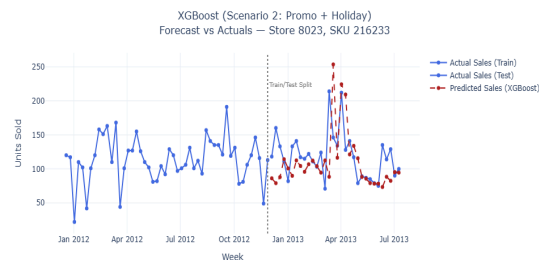
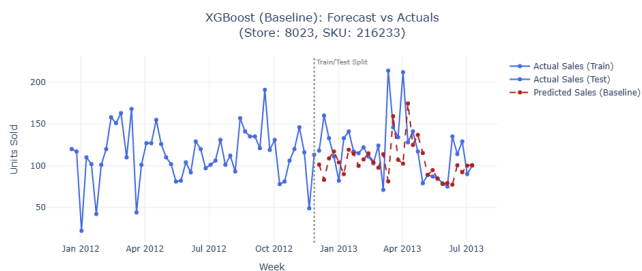
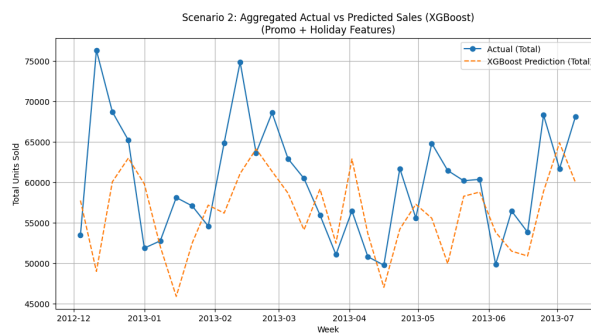
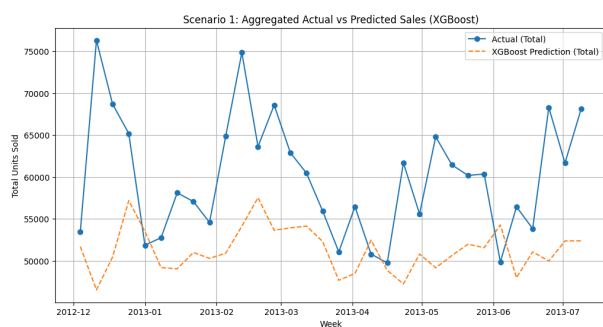
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--- (Promo + Holiday) Model Comparison ---

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	RMSE	MAE
XGBoost	34.983141	16.994791
Random Forest	34.393761	17.508616
Linear Regression	35.142343	18.257599

Best Model (Scenario 2): XGBoost



Prophet Model Implementation:

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--- Prophet Model Results without including extra Features ---
MAE : 32.6119
RMSE : 60.4334

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--- Prophet (Scenario 2: with Promo + Holiday)---
MAE : 36.4442
RMSE : 62.6373

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