

Forecasting Final Report

1. Executive Summary

Generated on 2025-12-16 00:44.

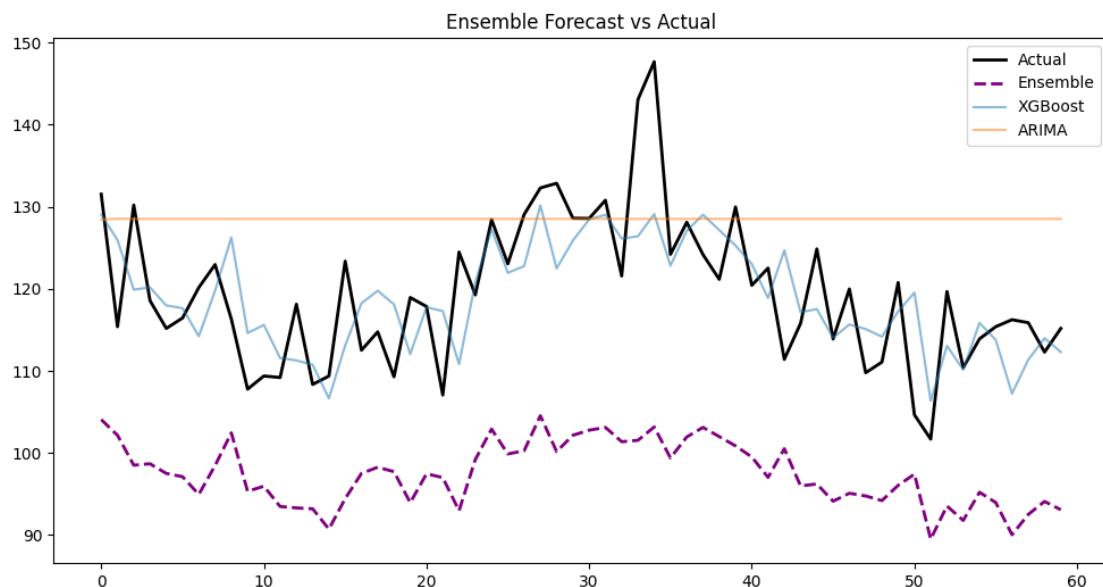
This report summarizes the performance of the ensemble forecasting model designed to predict ticket demand for the next 30 days. The model blends ARIMA, XGBoost, and LSTM architectures.

2. Model Performance

Model	RMSE
ARIMA	12.73
XGBoost	6.75
LSTM	117.51
Ensemble (Blended)	23.06

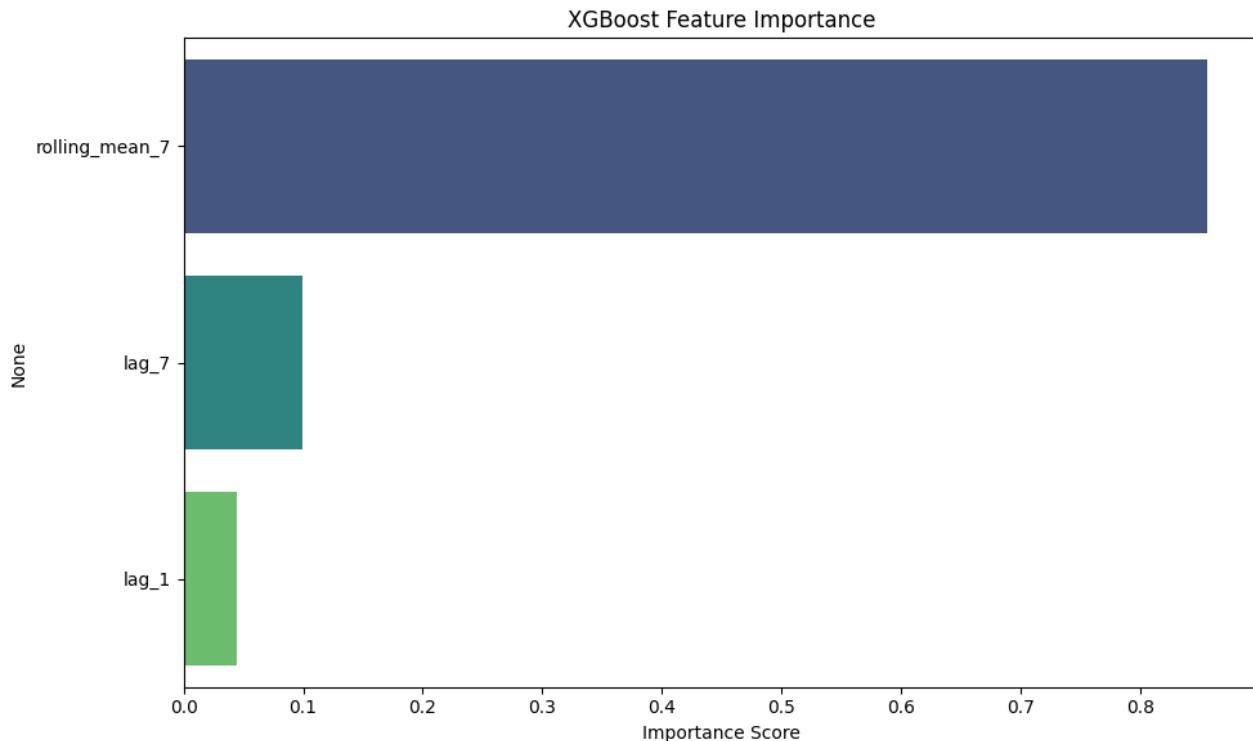
3. 30-Day Forecast

Below is the visual comparison of the ensemble forecast against actual values (if available) or trends.



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4. Feature Importance (XGBoost)



5. Data Quality Summary

Total Data Points processed: 4

Total Missing Values (filled): 0

Outlier Correction Strategy: Rolling mean/std used to detect local anomalies. Missing values were forward-filled to maintain time-series continuity.