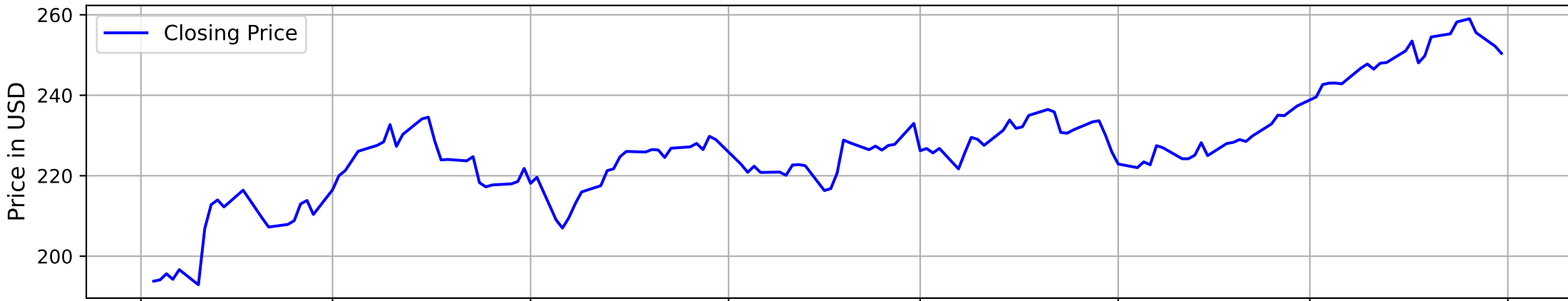
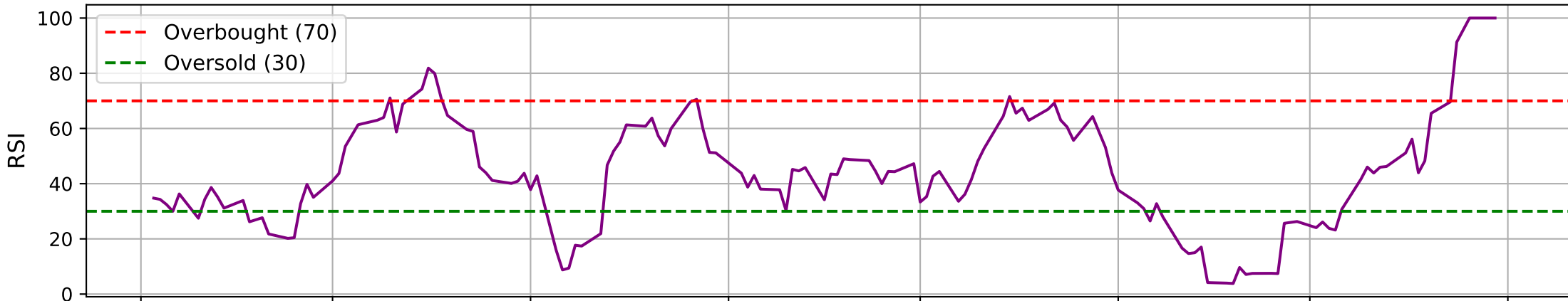


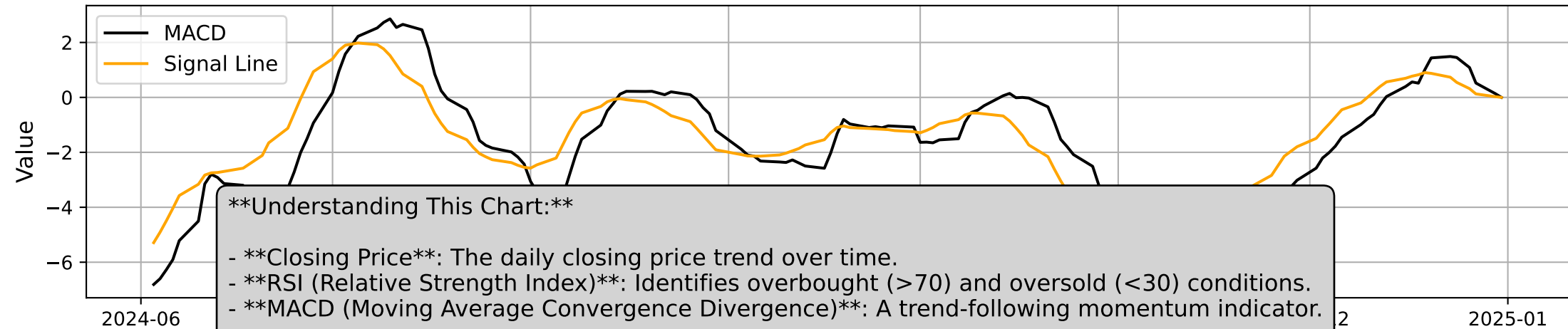
AAPL Closing Price Over Time



AAPL RSI (Relative Strength Index)



AAPL MACD (Moving Average Convergence Divergence)

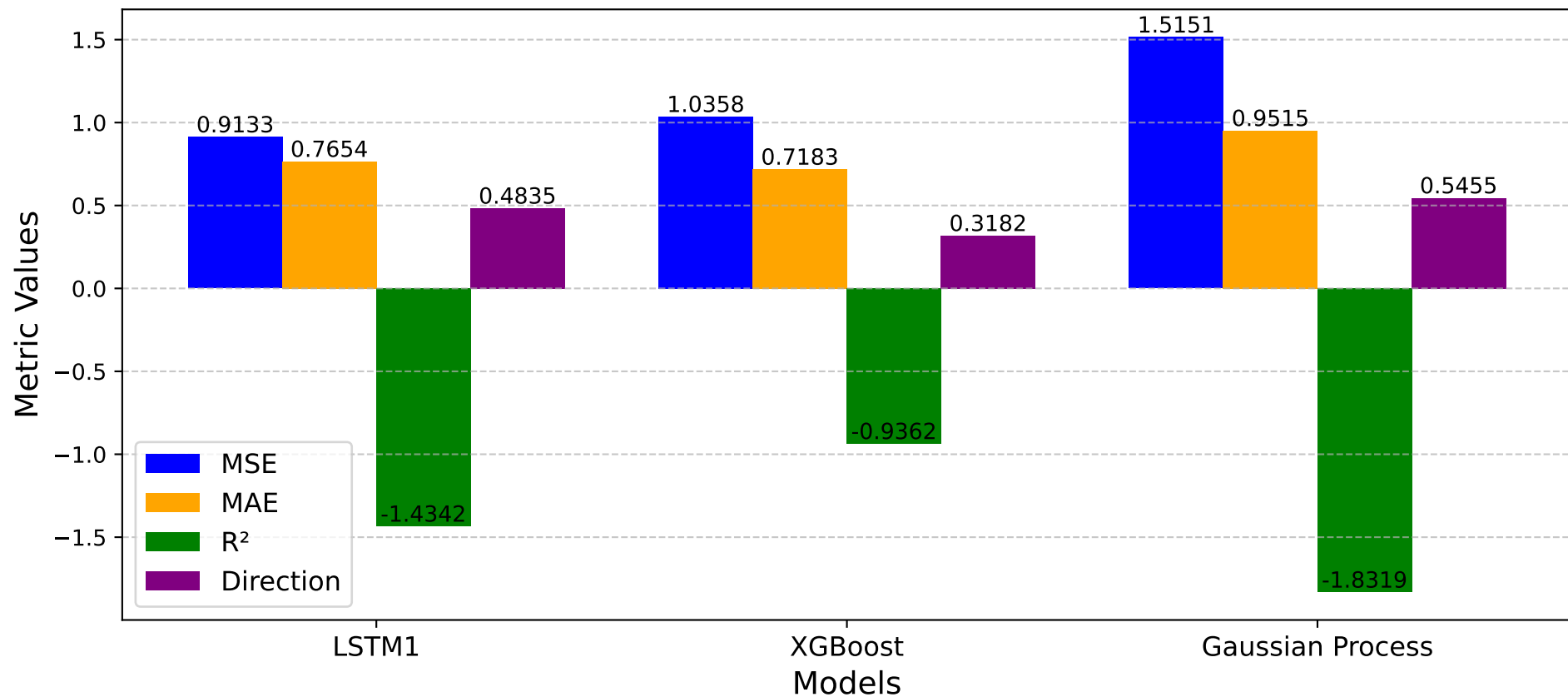


****Understanding This Chart:****

- ****Closing Price****: The daily closing price trend over time.
- ****RSI (Relative Strength Index)****: Identifies overbought (>70) and oversold (<30) conditions.
- ****MACD (Moving Average Convergence Divergence)****: A trend-following momentum indicator.

****Use this analysis to identify trading opportunities and assess market trends.****

Model Evaluation Metrics for AAPL

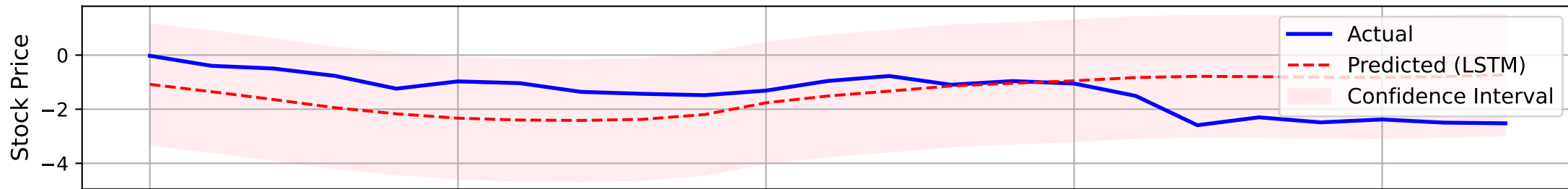


☐ ****Understanding This Chart:****

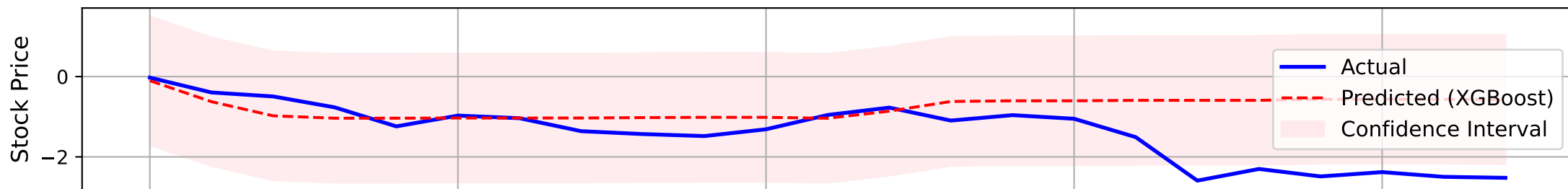
- ****MSE (Mean Squared Error):**** Measures how far predictions deviate from actual values. ****Lower is better****.
- ****MAE (Mean Absolute Error):**** Similar to MSE but takes absolute differences. ****Lower is better****.
- ****R² Score:**** Represents how well predictions fit the actual data. ****Closer to 1 is better****.
- ****Directional Accuracy:**** Measures how often the model predicts the correct trend direction. ****Higher is better****.

☐ ****Use this chart to compare models and identify the most accurate predictor for stock prices.****

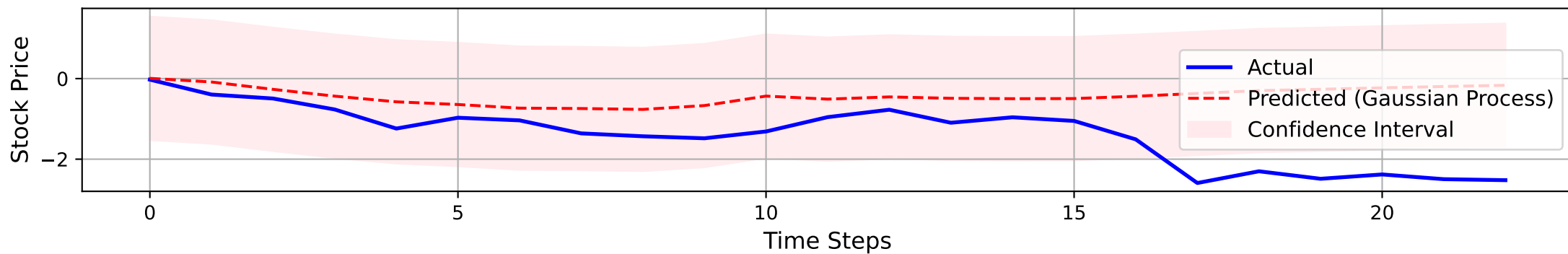
AAPL Time Series Forecast: LSTM



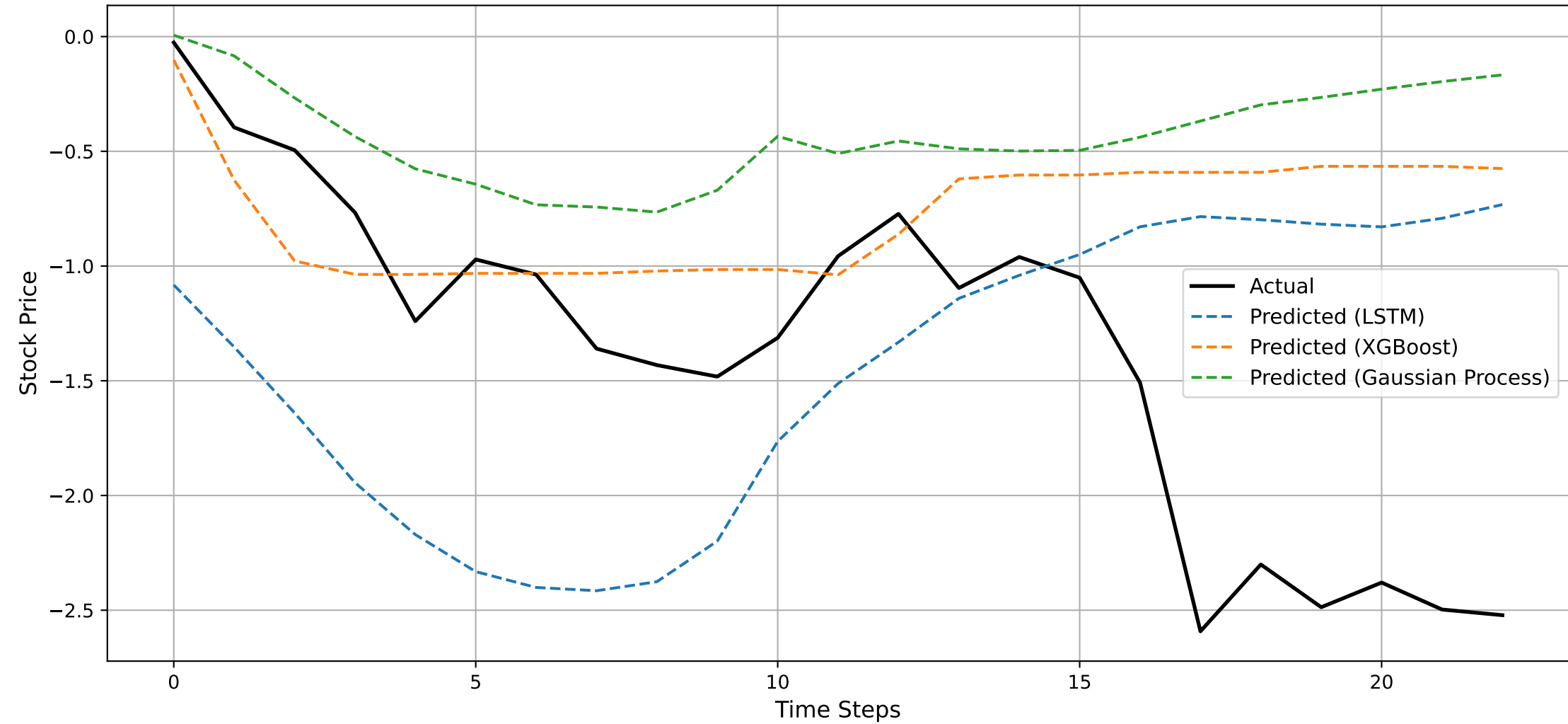
AAPL Time Series Forecast: XGBoost

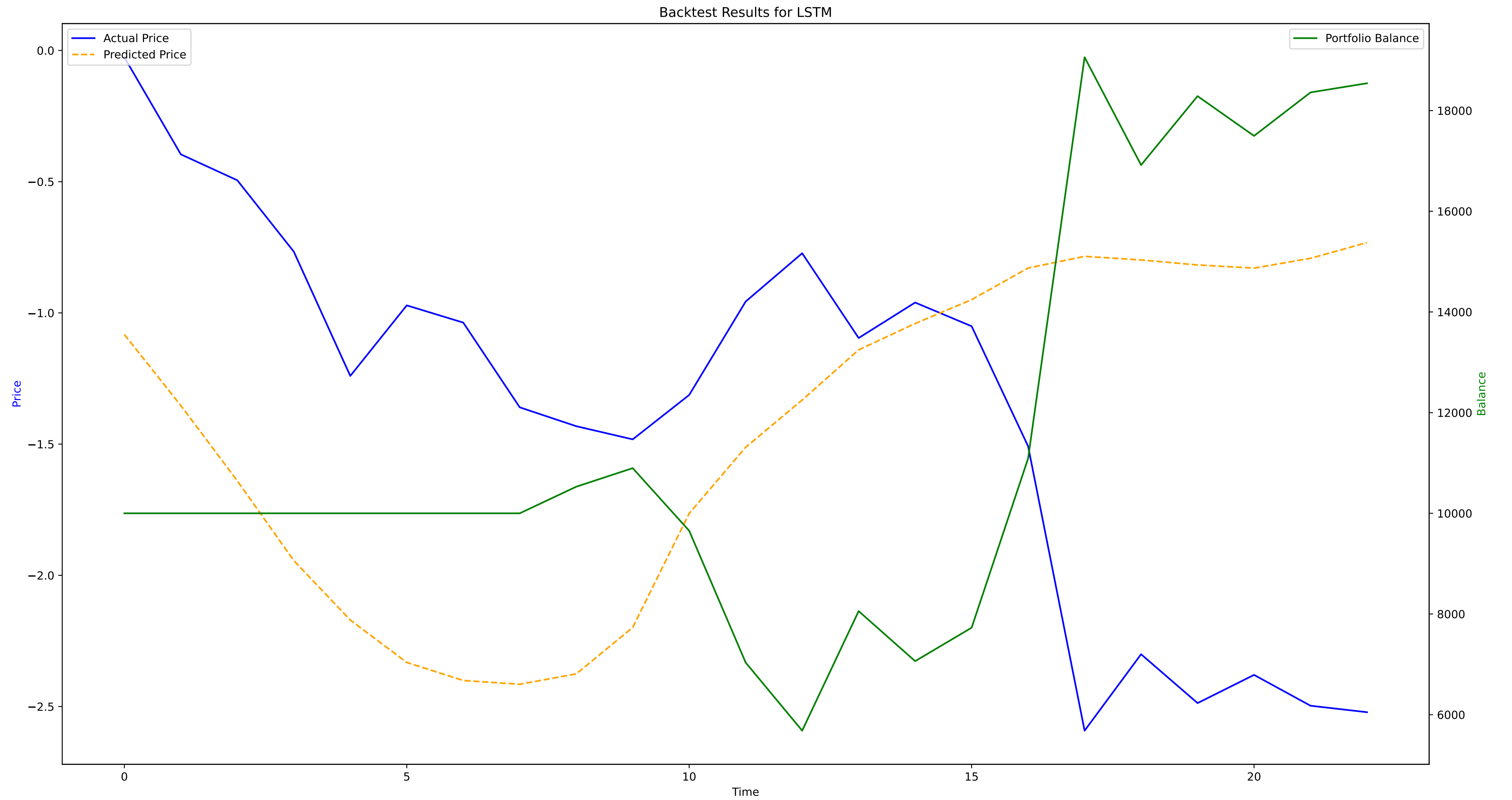


AAPL Time Series Forecast: Gaussian Process

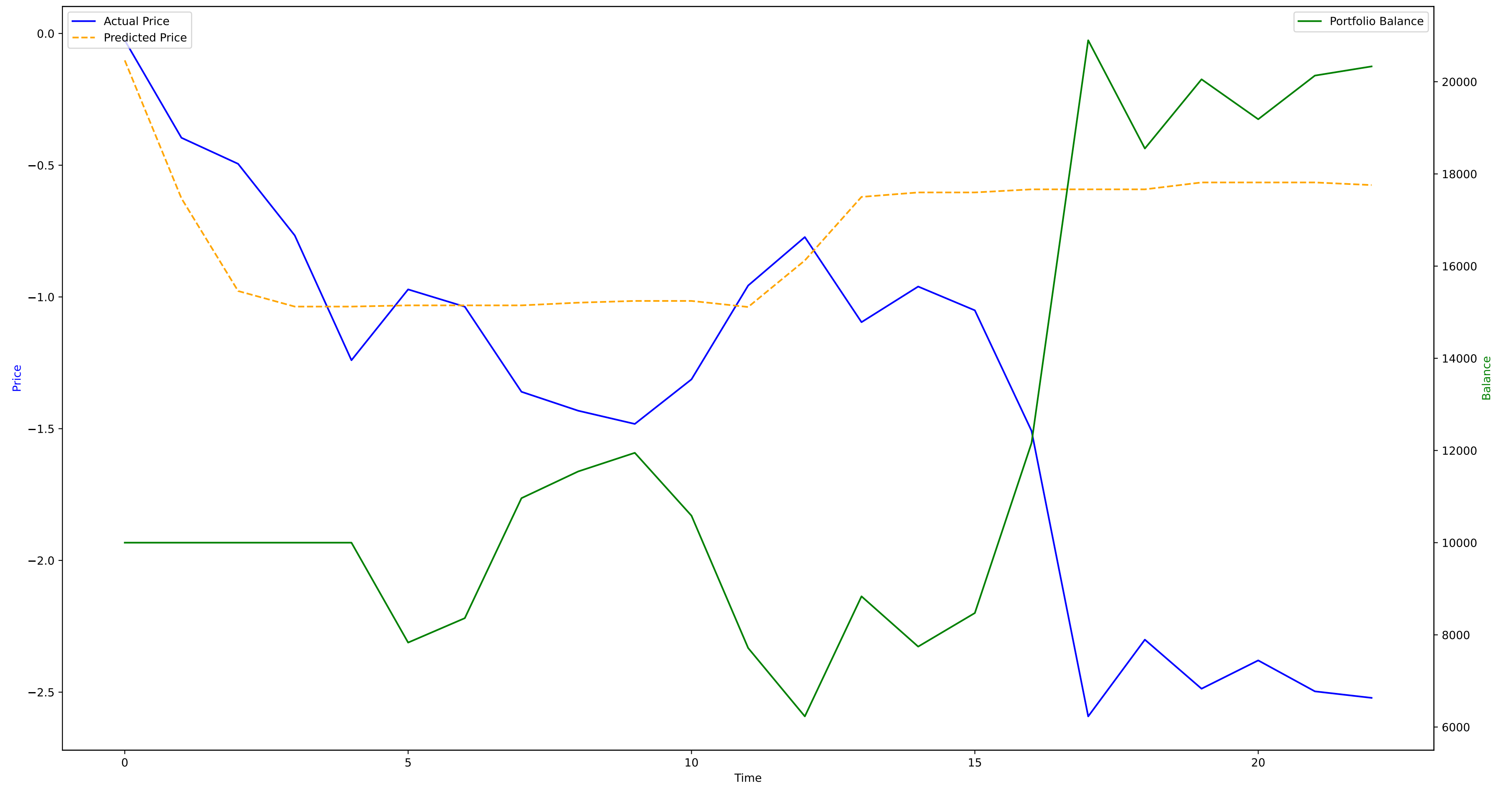


AAPL Comparison of Time Series Forecasts

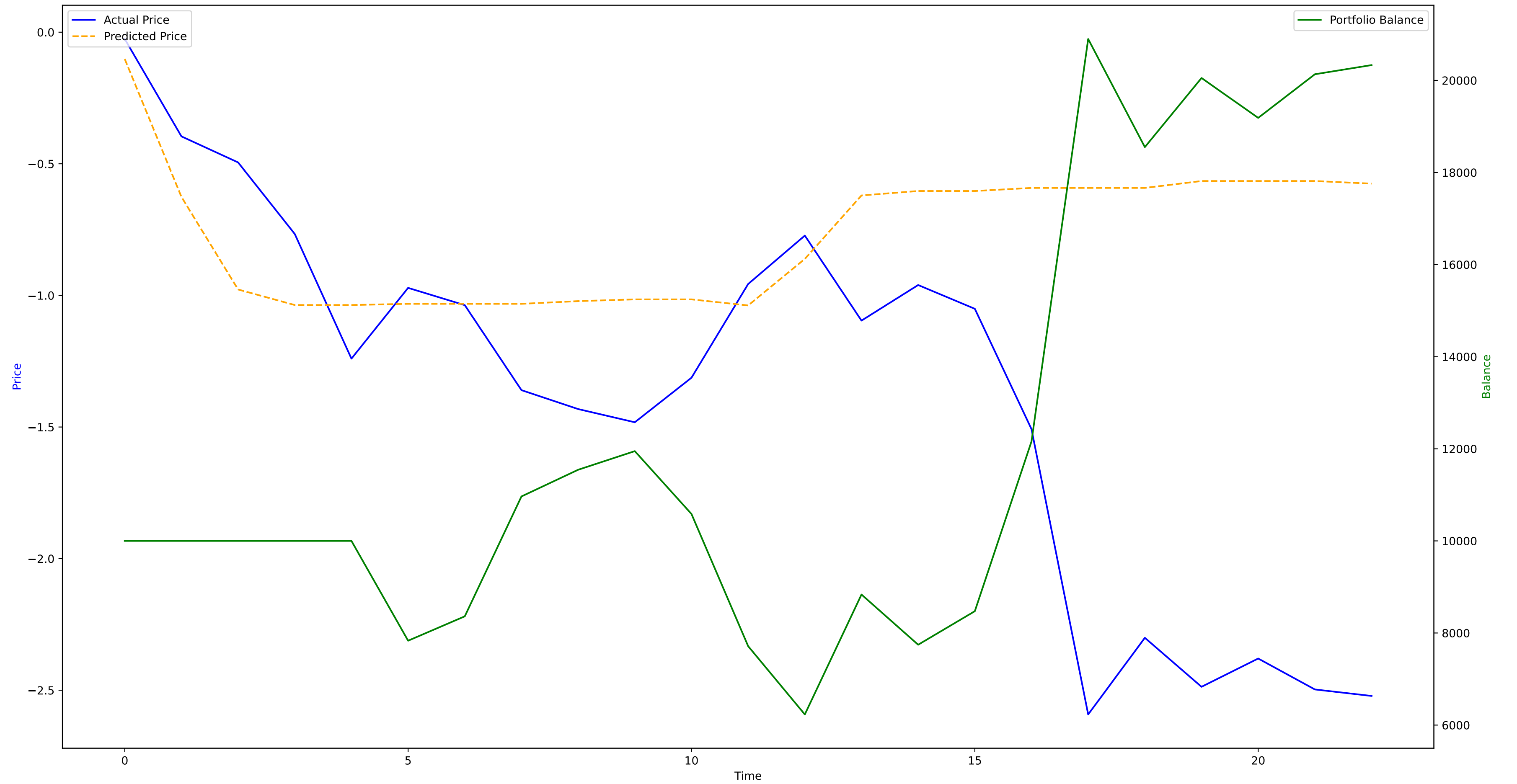




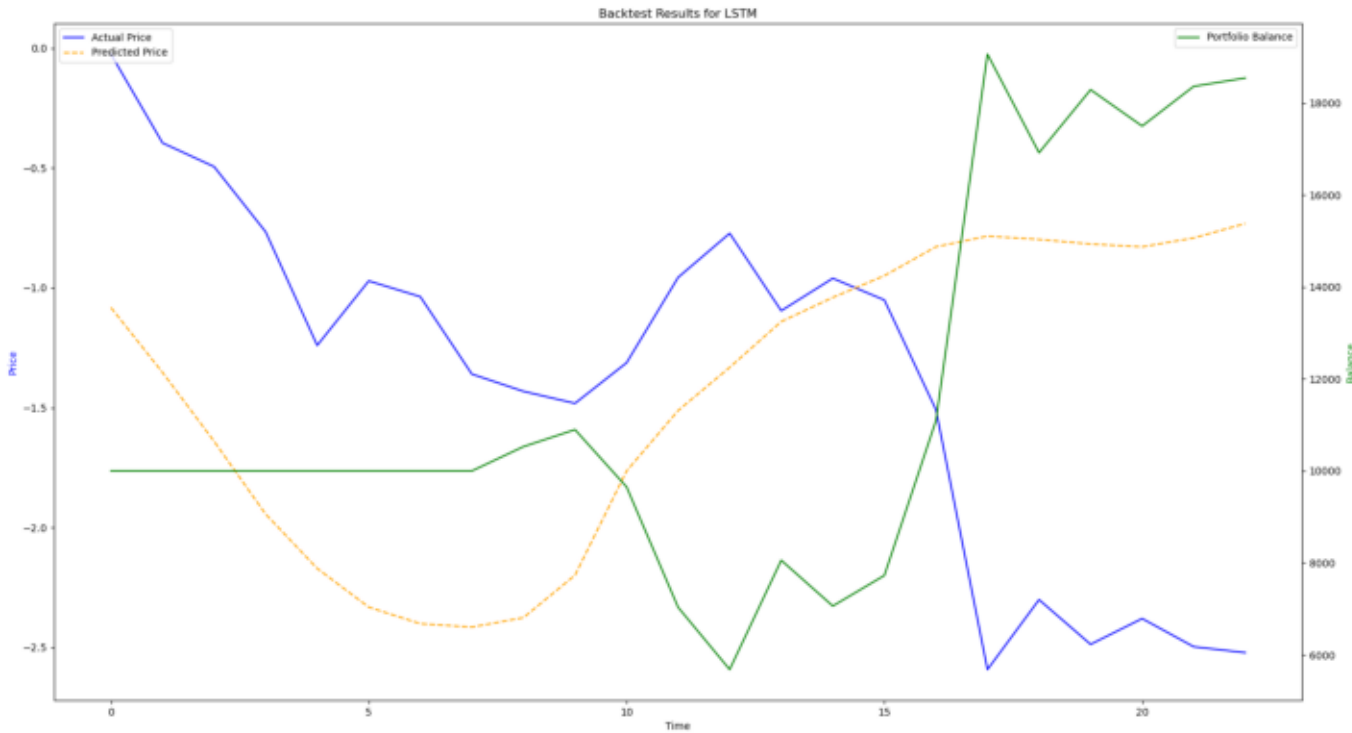
Backtest Results for XGBoost



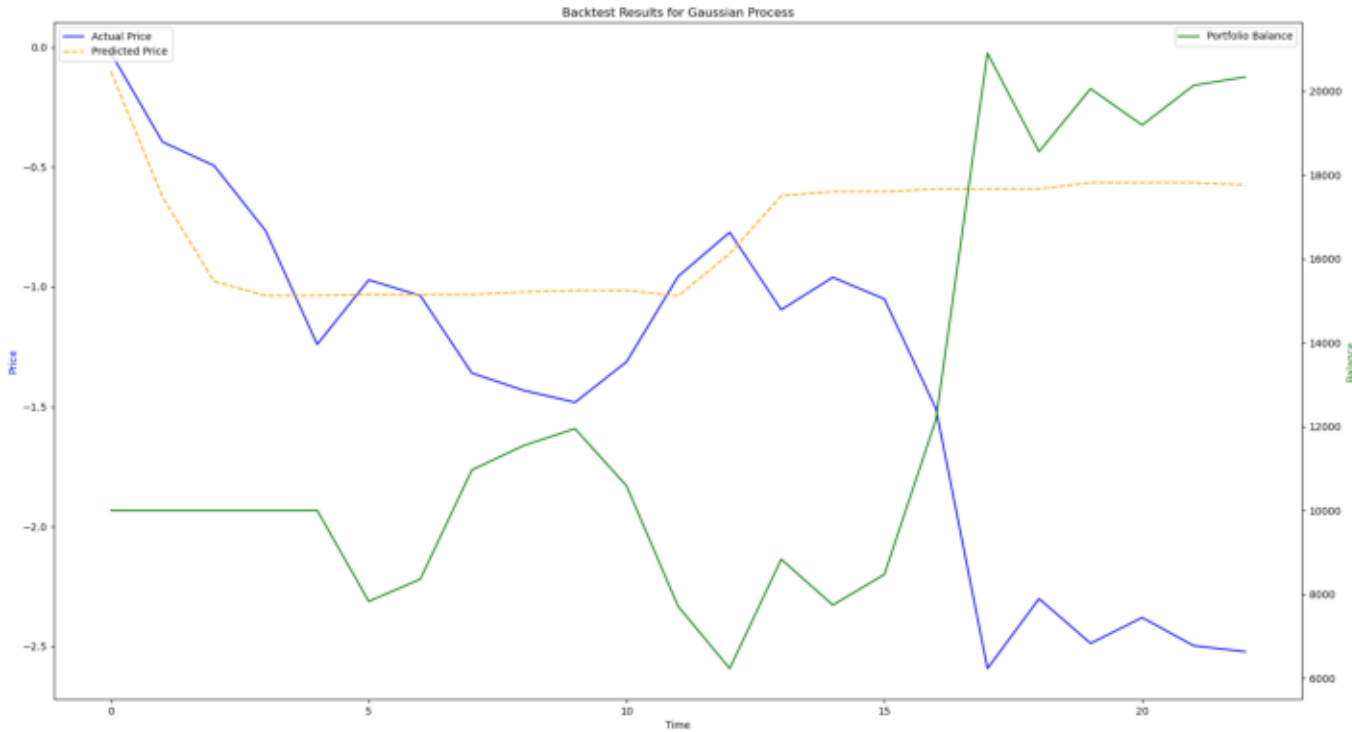
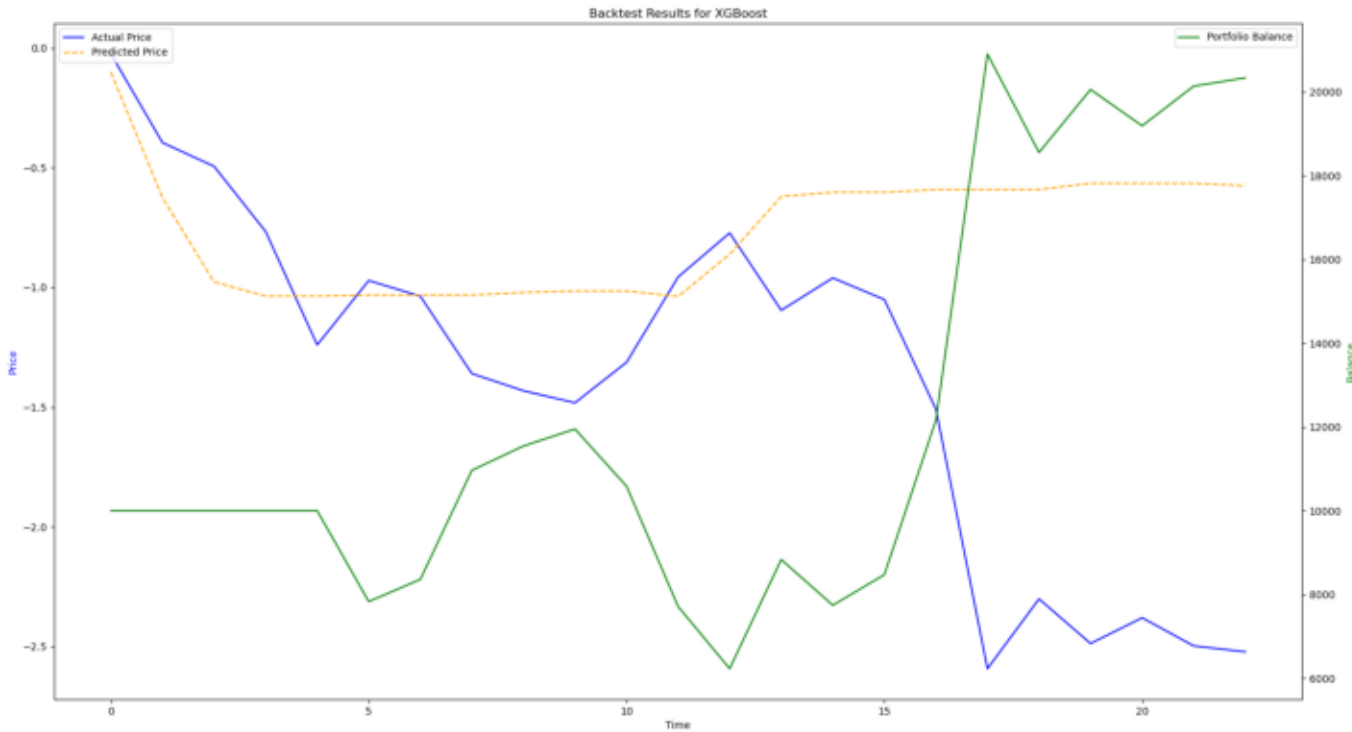
Backtest Results for Gaussian Process



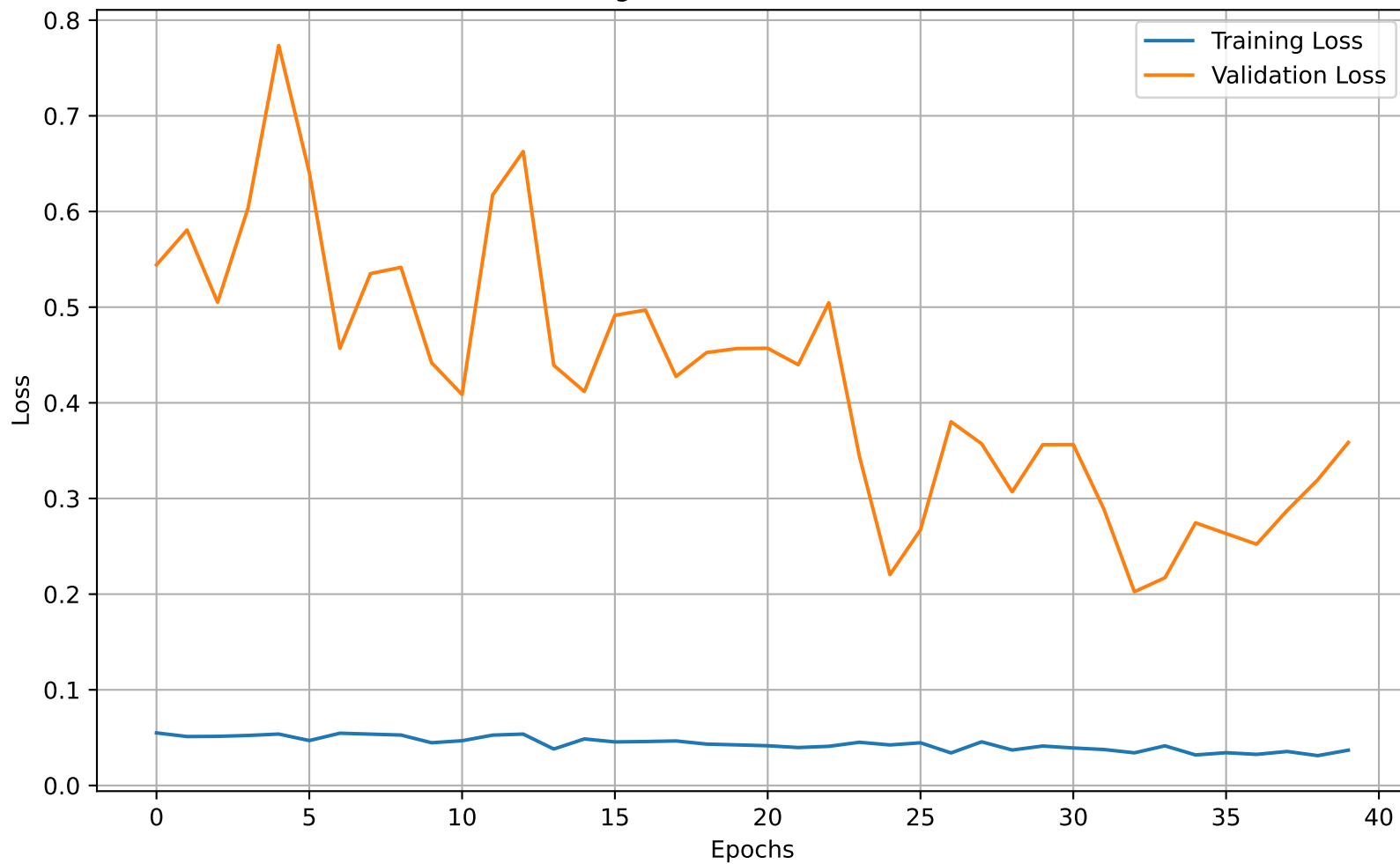
LSTM Backtest Results



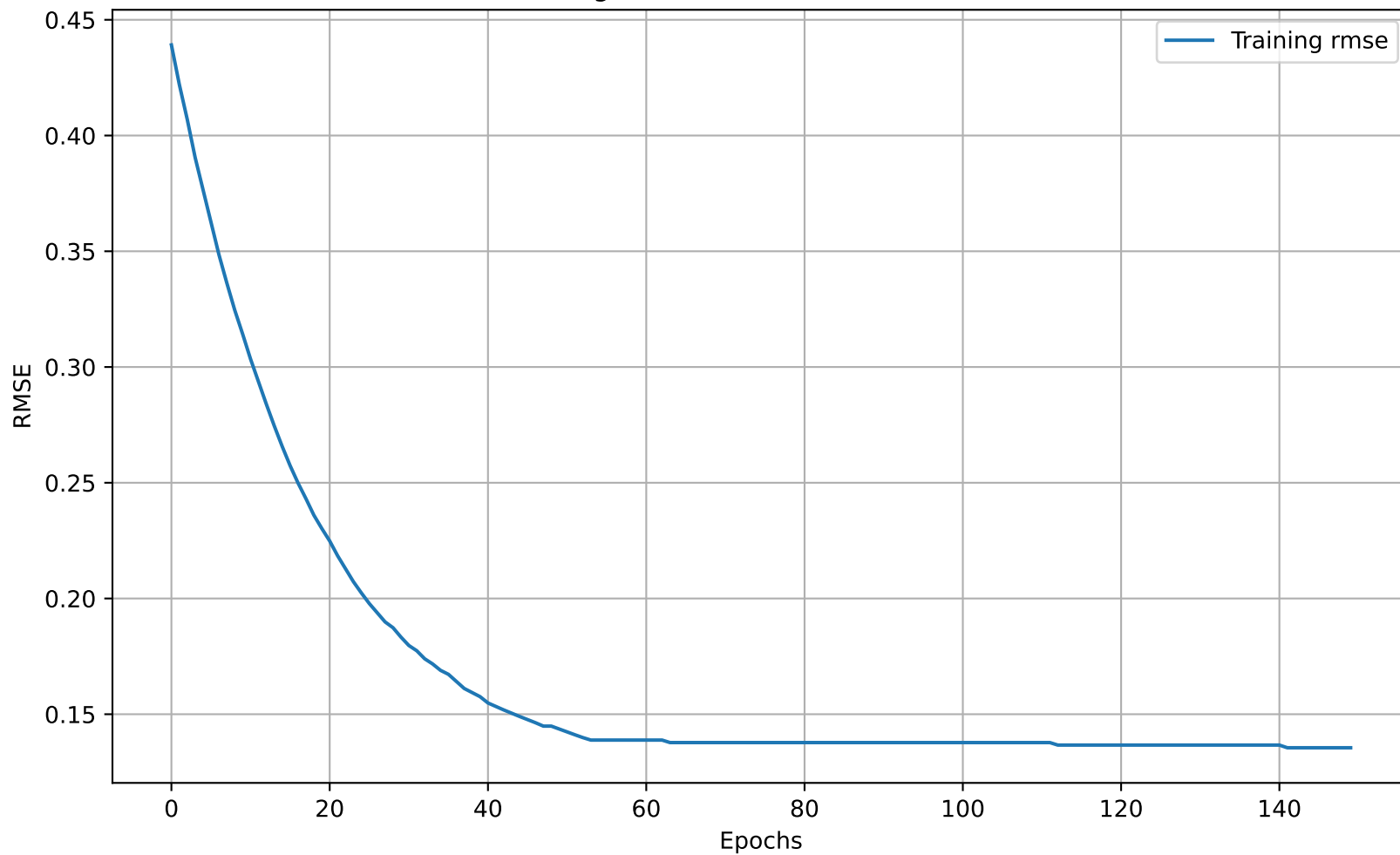
Gaussian Process Backtest Results



Training vs. Validation Loss LSTM



Training vs. Validation RMSE XGBoost



Gaussian Process: Training vs Validation RMSE Over Epochs

