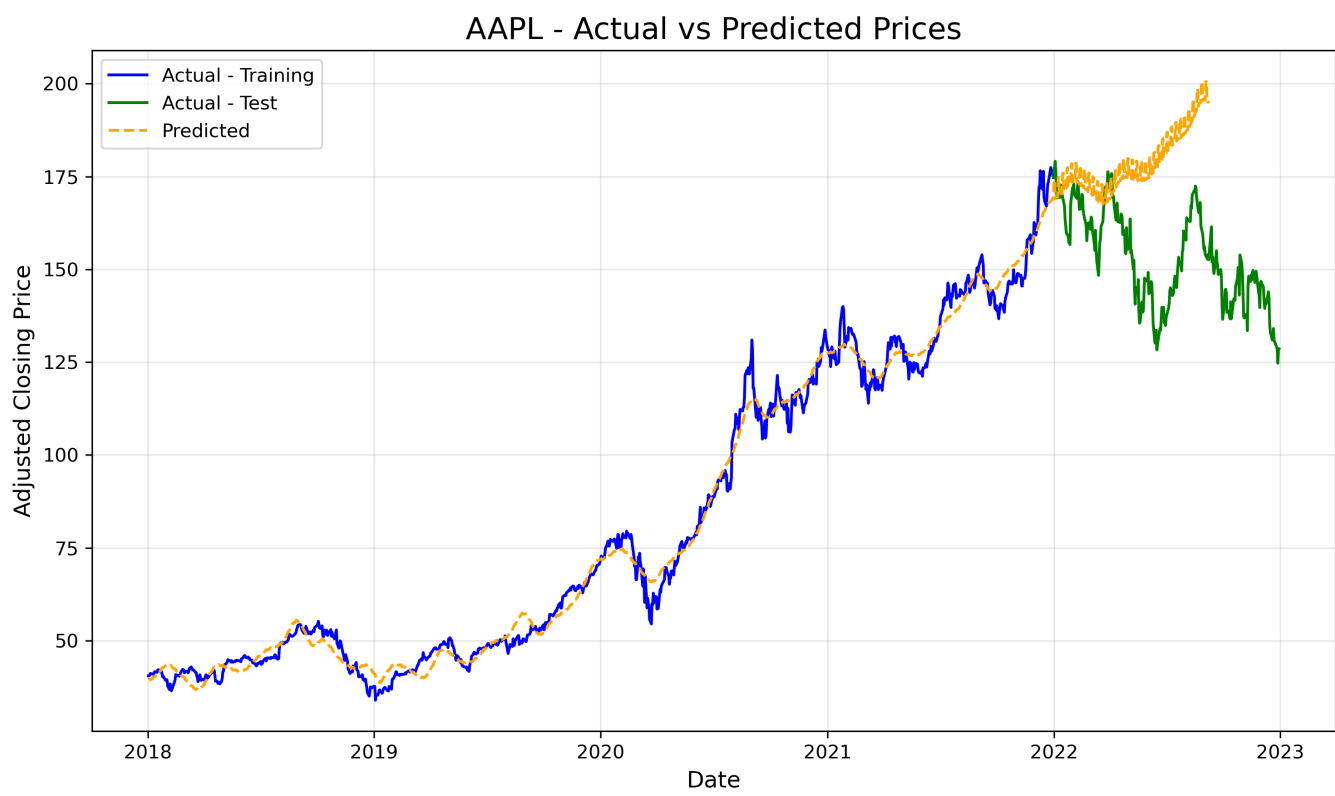# Stock Price Forecasting Report

This report summarizes the results of stock price forecasting for Apple (AAPL), Tesla (TSLA), and Meta (META). The analysis includes data preprocessing, forecasting using ARIMA and Prophet models, and evaluation of predictive accuracy using Mean Absolute Error (MAE) and Root Mean Squared Error (RMSE).
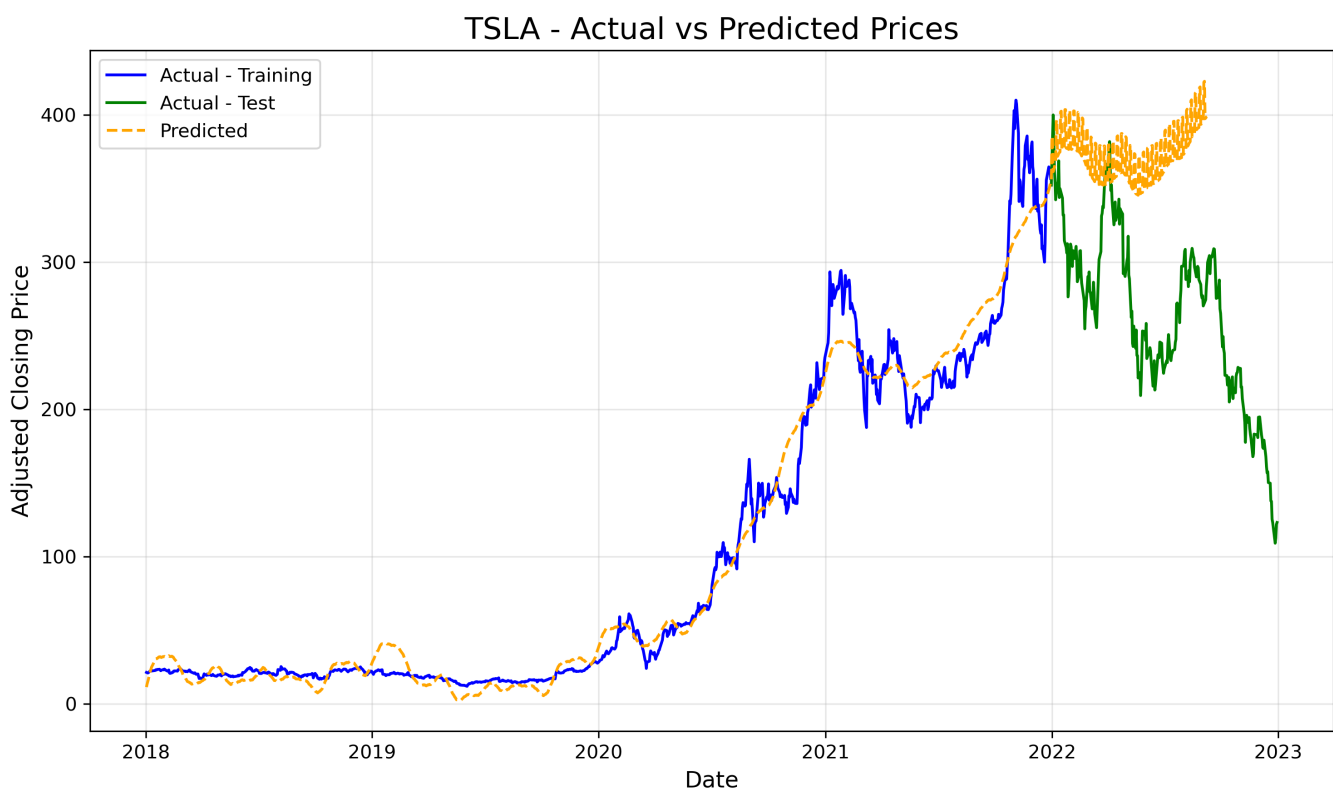
Forecast Results for AAPL

AAPL - Actual vs Predicted Prices

Evaluation Metrics for AAPL:

  - Mean Absolute Error (MAE): 27.28

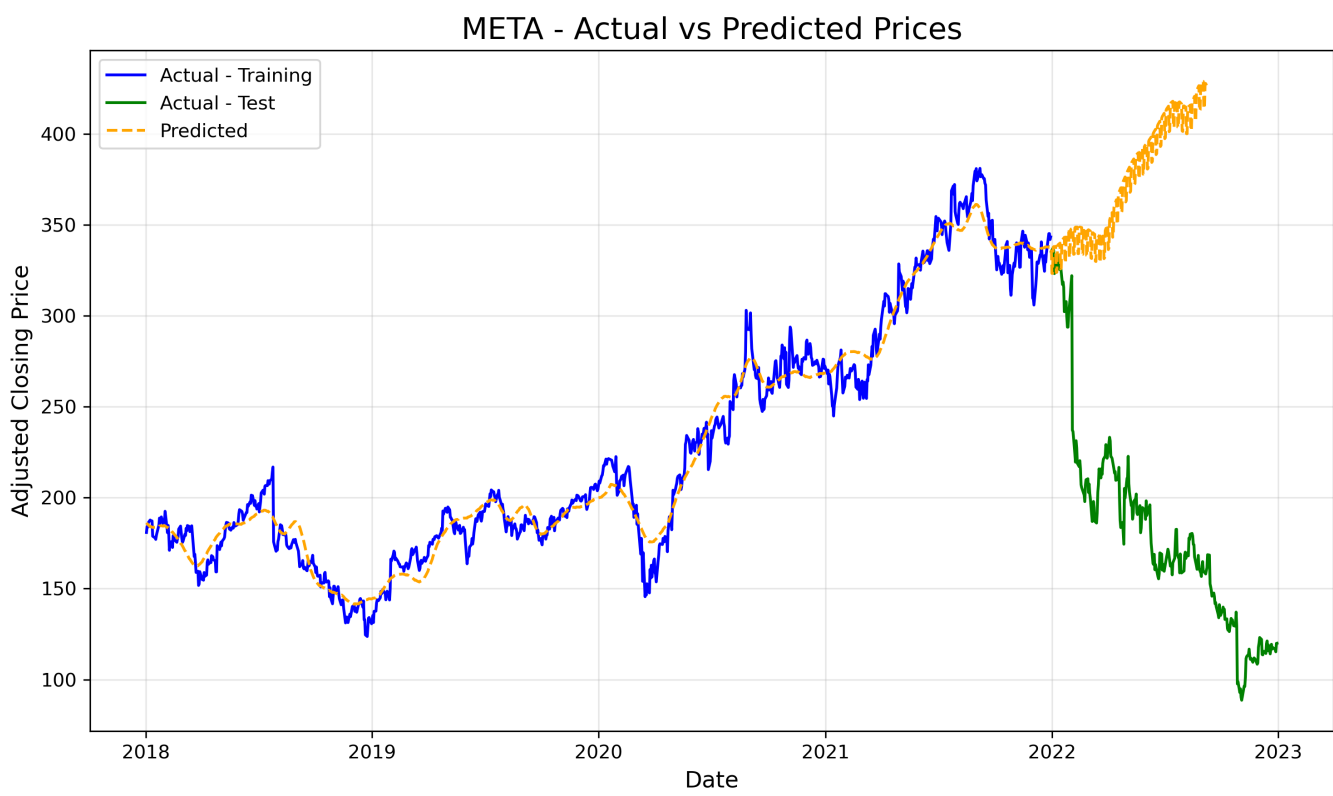 - Root Mean Squared Error (RMSE): 32.93

Forecast Results for TSLA

Evaluation Metrics for TSLA:

  - Mean Absolute Error (MAE): 109.59

  - Root Mean Squared Error (RMSE): 128.09

Forecast Results for META

META - Actual vs Predicted Prices

Evaluation Metrics for META:

 - Mean Absolute Error (MAE): 197.06

 - Root Mean Squared Error (RMSE): 214.60