Stock Market Analysis Report

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1. Market Overview

S&P 500 Performance:

2. Individual Stock Analysis
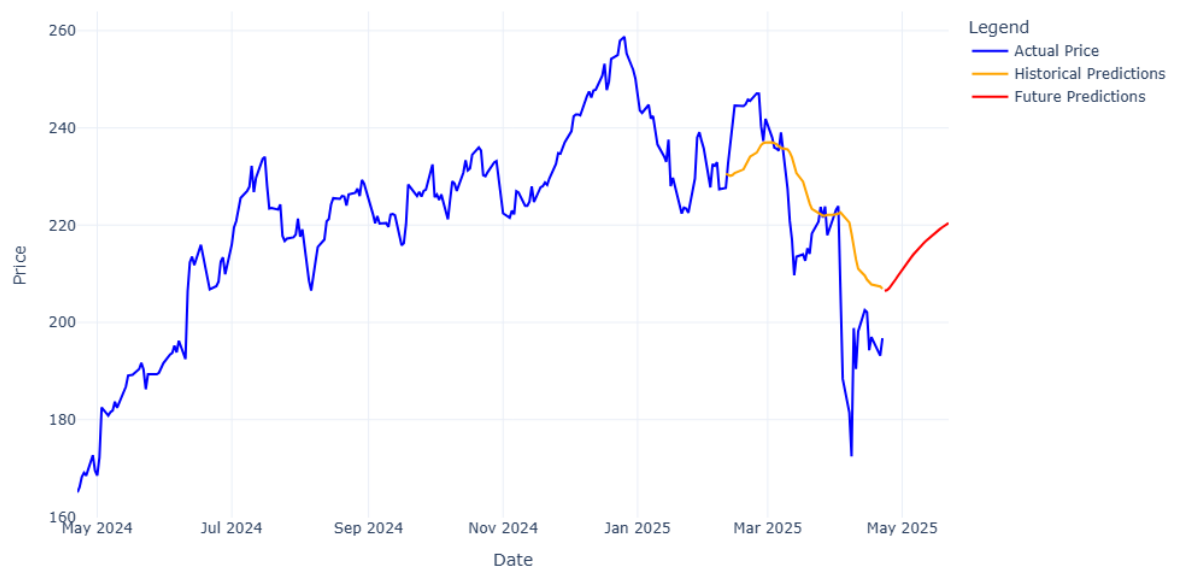
AAPL Analysis

Company Name	Apple Inc.	Industry	Consumer Electronics
Current Price	$196.73	**Market Cap**	$3015.89B
52-Week High	$260.1	**52-Week Low**	$164.92

AAPL Technical Analysis

Price Predictions
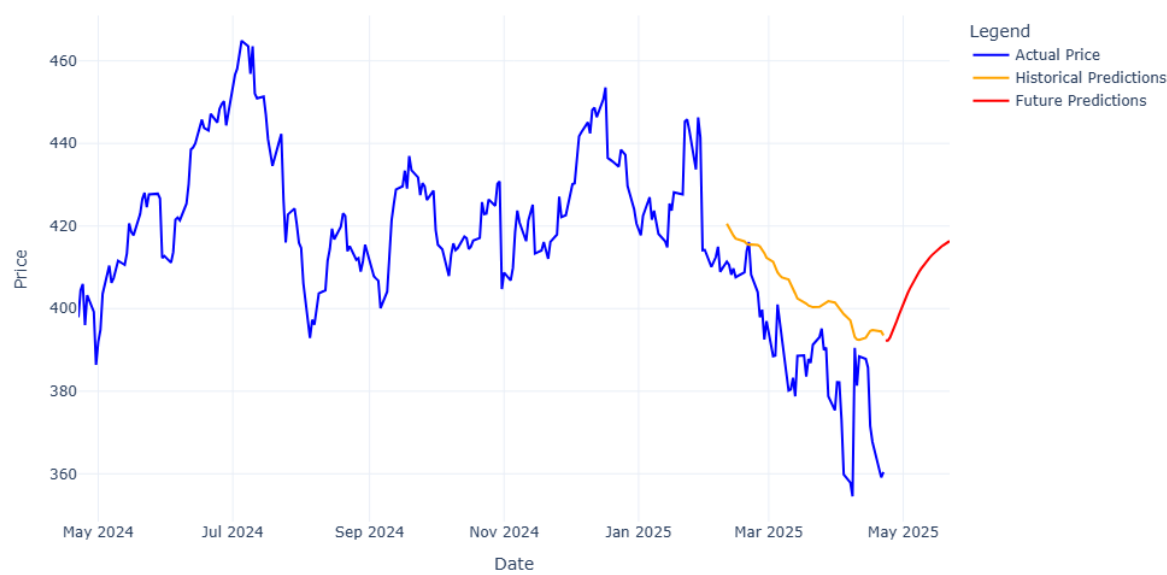
AAPL Price Predictions (RMSE: 14.28)

MSFT Analysis

Company Name	Microsoft Corporation	Industry	Software - Infrastructure
Current Price	$360.45	Market Cap	$2744.73B
52-Week High	$468.35	52-Week Low	$344.79

MSFT Technical Analysis

Price Predictions

MSFT Price Predictions (RMSE: 19.10)

AMZN Analysis

Company Name	Amazon.com, Inc.	Industry	Internet Retail
Current Price	$170.11	Market Cap	$1867.49B
52-Week High	$242.52	52-Week Low	$151.61

AMZN Technical Analysis

Price Predictions

AMZN Price Predictions (RMSE: 13.76)

GOOGL Analysis

Company Name	Alphabet Inc.	Industry	Internet Content & Information
Current Price	$149.05	**Market Cap**	$1872.70B
52-Week High	$207.05	**52-Week Low**	$140.53

GOOGL Technical Analysis

Price Predictions

GOOGL Price Predictions (RMSE: 6.43)

META Analysis

Company Name	Meta Platforms, Inc.	Industry	Internet Content & Information
Current Price	$490.07	**Market Cap**	$1281.65B
52-Week High	$740.91	**52-Week Low**	$414.5

META Technical Analysis

Price Predictions
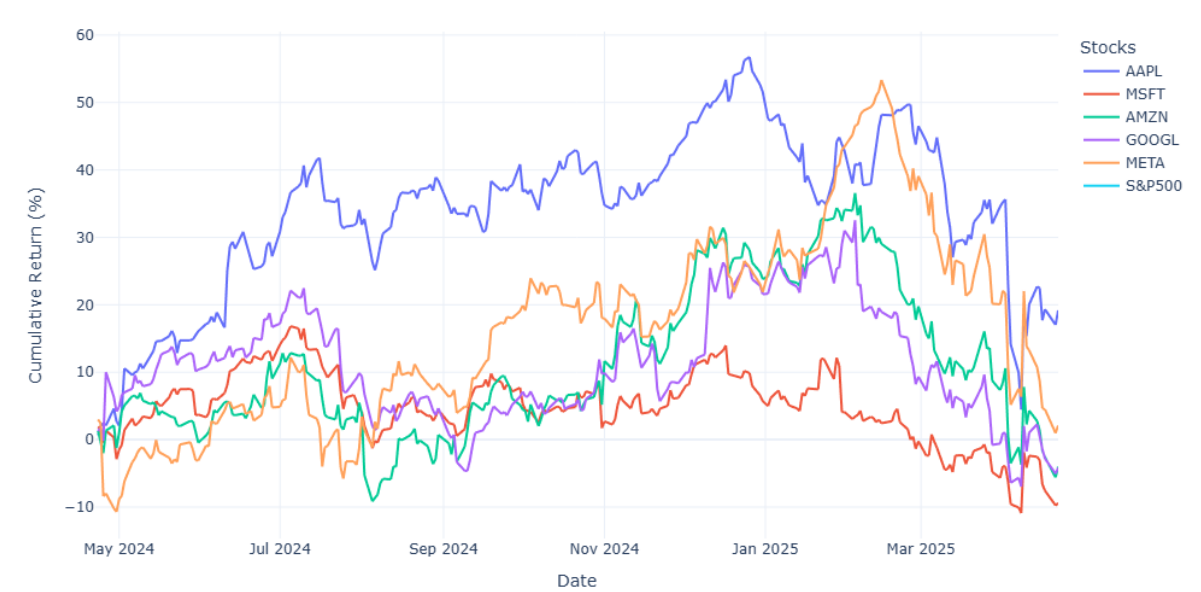

META Price Predictions (RMSE: 42.04)

3. Portfolio Analysis

	YTD Return (%)	1-Month Return (%)	Daily Volatility (%)	Annualized Volatility (%)
AAPL	NaN	-1087.47	2.05	32.53
MSFT	NaN	-830.11	1.55	24.62
AMZN	NaN	-1630.91	2.10	33.35
GOOGL	NaN	-1111.04	1.99	31.62
META	NaN	-2080.96	2.34	37.14
S&P500	NaN	NaN	1.21	19.21

Cumulative Returns Comparison

YTD Performance

Correlation Matrix

	AAPL	MSFT	AMZN	GOOGL	META	S&P500
AAPL	1	0.3632172	0.6320709	0.4612864	0.7132789	
MSFT	0.3632172	1	0.3152946	0.6095598	−0.01760204	
AMZN	0.6320709	0.3152946	1	0.7950253	0.8082226	
GOOGL	0.4612864	0.6095598	0.7950253	1	0.4490203	
META	0.7132789	−0.01760204	0.8082226	0.4490203	1	
S&P500						
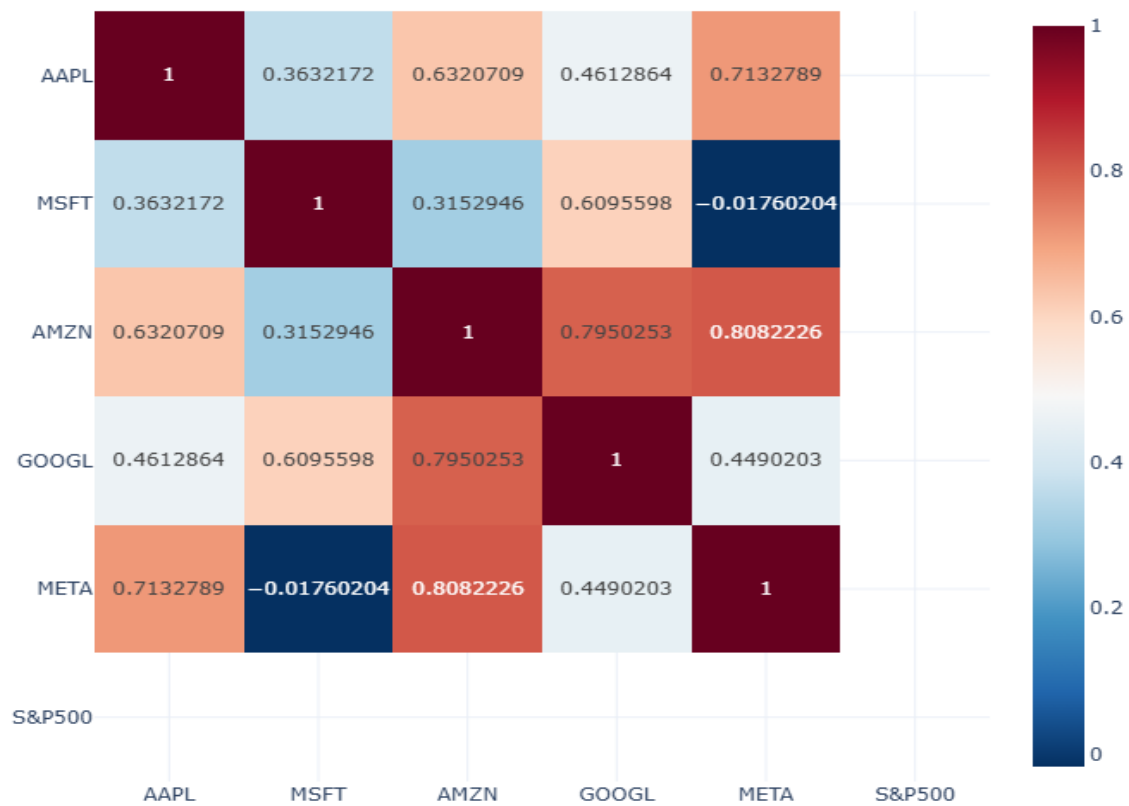
4. Conclusion and Recommendations

Based on the analysis conducted:

- **AAPL**: Consider buying. The model predicts a potential 12.04% increase in the next 30 days.
- **MSFT**: Consider buying. The model predicts a potential 15.51% increase in the next 30 days.
- **AMZN**: Consider buying. The model predicts a potential 9.36% increase in the next 30 days.
- **GOOGL**: Consider buying. The model predicts a potential 9.64% increase in the next 30 days.
- **META**: Consider buying. The model predicts a potential 8.09% increase in the next 30 days.

Disclaimer: This analysis is for informational purposes only and should not be considered financial advice. Always conduct your own research before making investment decisions.