PREDICTION OVERVIEW: METRICS AND DATA

XGBOOST REGRESSION MODEL

Mean Absolute Percentage Error

35.62%

MAPE

Row Count

13.39 Mil

XGBoost New Prediction Metrics

2025-05-07	XGBoost	9.4348031	0.9999986	4.5491686
Date	Model	RMSE	R2	MAE

XGBoost Prediction Metrics

2025-05-07	XGBoost	32.3422057	0.9999512	5.6368345
Date	Model	RMSE	R2	MAE

Feature Importance

XGBoost Model

New Real vs Predicted

Date	Ticker	Close Price Real	Close Price Pred
2025-05-06	AMZN	185.01	185.22
2025-05-06	GOOGL	163.23	163.80
2025-05-06	META	587.31	584.99
2025-05-06	TSLA	275.35	275.11

Real vs Predicted

Date	Ticker	Close Price Real	Close Price Pred
2025-05-06	AMZN	185.01	185.22
2025-05-06	GOOGL	163.23	163.80
2025-05-06	META	587.31	584.99
2025-05-06	TSLA	275.35	275.11
2025-05-05	AMZN	186.35	186.51
2025-05-05	GOOGL	164.21	164.42
2025-05-05	META	599.27	598.95
2025-05-05	TSLA	280.26	280.37
2025-05-02	AMZN	189.98	188.74
2025-05-02	GOOGL	164.03	163.90
2025-05-02	META	597.02	591.45
2025-05-02	TSLA	287.21	287.23
2025-05-01	AMZN	190.20	190.00
2025-05-01	GOOGL	161.30	161.25
2025-05-01	META	572.21	572.79
2025-05-01	TSLA	280.52	280.65
2025-04-30	AMZN	184.42	184.30
2025-04-30	GOOGL	158.80	159.58
2025-04-30	META	549.00	548.80

REDICTION OVERVIEW | STATS OVERVIEW | PERFORMANCE & EVENTS | PROFITABILITY | CONSUMER CYCLICAL | COMMUNICATION SERVIC

DESCRIPTIVE STATISTICS
(2020 - 2025)

Profitability Histogram

Profitability based on Close price (2020-2025)
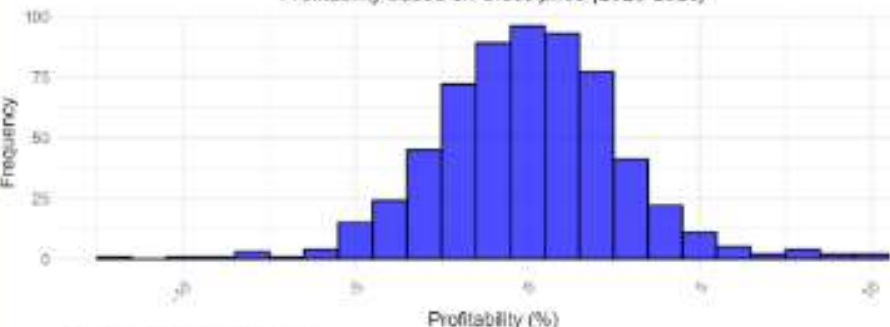
Max Profit (%)	**10.22**
Min Profit (%)	**-11.63**

Mean Profit (%)	**0.09**
Median Profit (%)	**0.15**

SD Profit (%)	**2.07**
Var Profit (%)	**4.26**

Profitability (%)

Data source: tidyquant | Yahoo Finance

AMZN

GOOGL

META

TSLA

Statistics
Close price

$122.42 Mean	$122.50 Median	$34.36 SD	$52.71 Min	$206.38 Max	$153.67 Interval

2020

Close Price

Ticker ● GOOGL
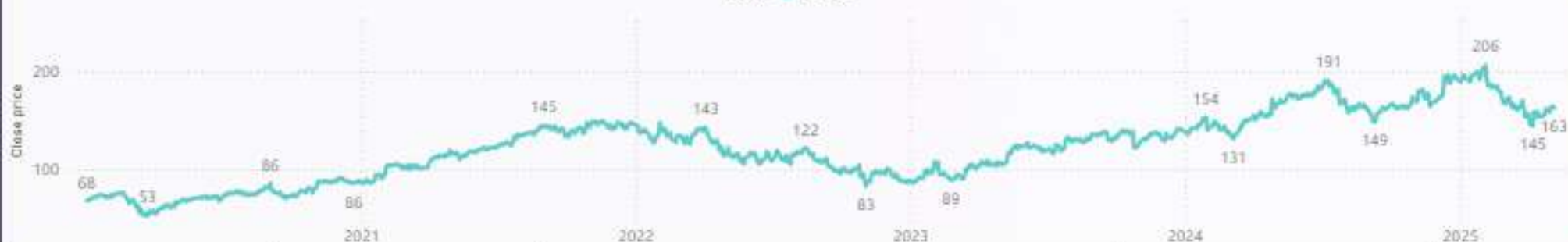
2021

2022

2023

2024

2025

REDICTION OVERVIEW STATS OVERVIEW PERFORMANCE & EVENTS PROFITABILITY CONSUMER CYCLICAL COMMUNICATION SERVIC

Closing Price by Ticker
Significant events highlighted

Tickers ●AMZN ●GOOGL ●META ●TSLA

COVID19 · META · TWITTER · Election · TradeWar

Interest Rate Increse · Bank Crisis · Inauguration

Closing Price

800
600
400
200
0

2021 · 2022 · 2023 · 2024 · 2025

Des... · 2020 · 2021 · 2022 · 2023 · 2024 · 2025

Consumer Cyclical Sector

Monthly closing price evolution

Ticker ● AMZN ● TSLA

10/28/2022

Monthly profitability evolution

Ticker ● AMZN ● TSLA

Communication Services Sector

Monthly closing price evolution

Ticker ● GOOGL ● META

10/28/2021

Closing Price — 10 Mil, 5 Mil, 0 Mil

META
GOOGL

Date — 2020, 2021, 2022, 2023, 2024, 2025

Monthly profitability evolution

Ticker ● GOOGL ● META

Profit — 20, 0, -20, -40

GOOGL

2020, 2021, 2022, 2023, 2024, 2025

Correlation GOOGLE vs S&P 500
Symbol ^GSPC - S&P 500

	goog_profit	sp500_profit
sp500_profit	0.75	1
goog_profit	1	0.75

GOOGL Profitability

Data source: tidyquant library / Yahoo Finance

Correlation GOOGLE vs NASDAQ
Symbol ^NDX - Nasdaq 100

	goog_profit	nasdaq_profit
nasdaq_profit	0.8	1
goog_profit	1	0.8

GOOGL Profitability

Data source: tidyquant library / Yahoo Finance

Correlation GOOGLE vs US DOLLAR
Symbol UUP - US Dollar Indexes

	goog_profit	dolar_profit
dolar_profit	-0.13	1
goog_profit	1	-0.13

GOOGL Profitability
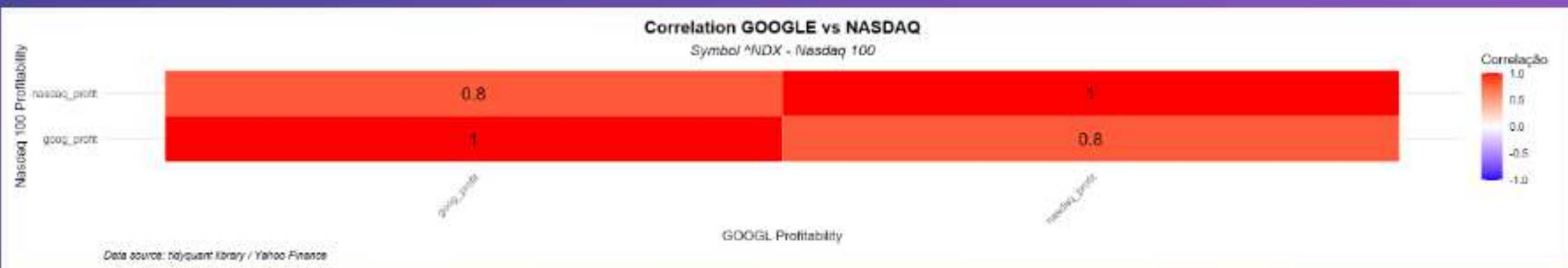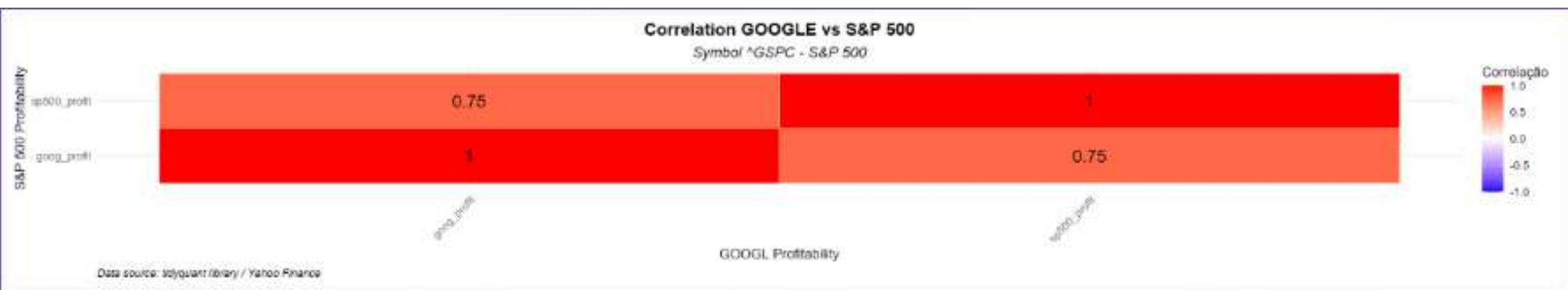
MMUNICATION SERVICES   AMZN & IDX CORR   GOOG & IDX CORR   META & IDX CORR   TSLA & IDX CORR   MA & VOL   CANDLE

Volatility

● VOL 7d ● VOL 30d ● VOL 90d ● VOL 180d
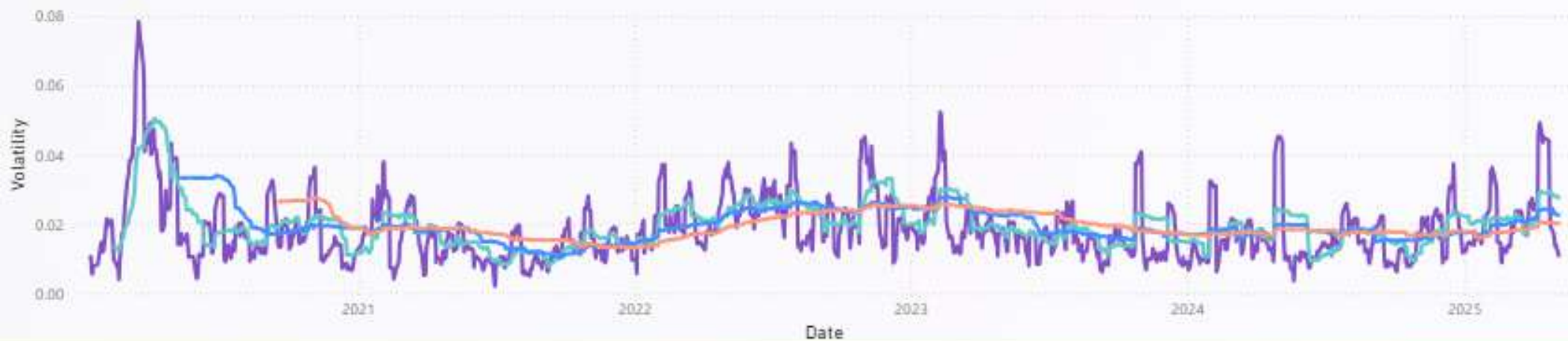
Moving Average

● MA 7d ● MA 30d ● MA 90d ● MA 180d

Des...
2020
2021
2022
2023
2024
2025

OMMUNICATION SERVICES | AMZN & IDX CORR | GOOG & IDX CORR | META & IDX CORR | TSLA & IDX CORR | MA & VOL ˣ | CANDLE

| CORR | GOOG & IDX CORR | META & IDX CORR | TSLA & IDX CORR | MA & VOL | CANDLE AMZN | CANDLE GOOG | CANDLE |

Profitability by Ticker
Significant Events Highlighted