

Coca-Cola Stock Price Report

Project 1

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2025-06-15

Table of contents

1 Exploratory Data Analysis	1
1.1 Data Preview	1
1.2 Data Information	1
1.3 Missing Values	2
2 Coca-Cola Stock Price	2
3 Tuned Parameters of the Best-Performing Model	3
4 Model Acuracy Metrics	3
5 Predicted vs. Acutal Data	4
6 Price Forecast for the Next 30 Days	4

1 Exploratory Data Analysis

1.1 Data Preview

	Date	Open	High	Low	Close	Volume	Dividends	Stock Splits
0	1962- ...	0.05...	0.05...	0.05...	0.05...	806400	0.0	0
1	1962- ...	0.04...	0.04...	0.04...	0.04...	1574400	0.0	0
2	1962- ...	0.04...	0.04...	0.04...	0.04...	844800	0.0	0
3	1962- ...	0.04...	0.04...	0.04...	0.04...	1420800	0.0	0
4	1962- ...	0.04...	0.04...	0.04...	0.04...	2035200	0.0	0

1.2 Data Information

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 15311 entries, 0 to 15310
Data columns (total 8 columns):
#   Column          Non-Null Count  Dtype
#   ...
```

```

---  -----  -----  -----
0   Date      15311 non-null  object
1   Open      15311 non-null  float64
2   High      15311 non-null  float64
3   Low       15311 non-null  float64
4   Close     15311 non-null  float64
5   Volume    15311 non-null  int64
6   Dividends 15311 non-null  float64
7   Stock Splits 15311 non-null  int64
dtypes: float64(5), int64(2), object(1)
memory usage: 957.1+ KB

```

1.3 Missing Values

```

Date      0
Open      0
High      0
Low       0
Close     0
Volume    0
Dividends 0
Stock Splits 0
dtype: int64

```

2 Coca-Cola Stock Price



3 Tuned Parameters of the Best-Performing Model

Best Hyperparameters:

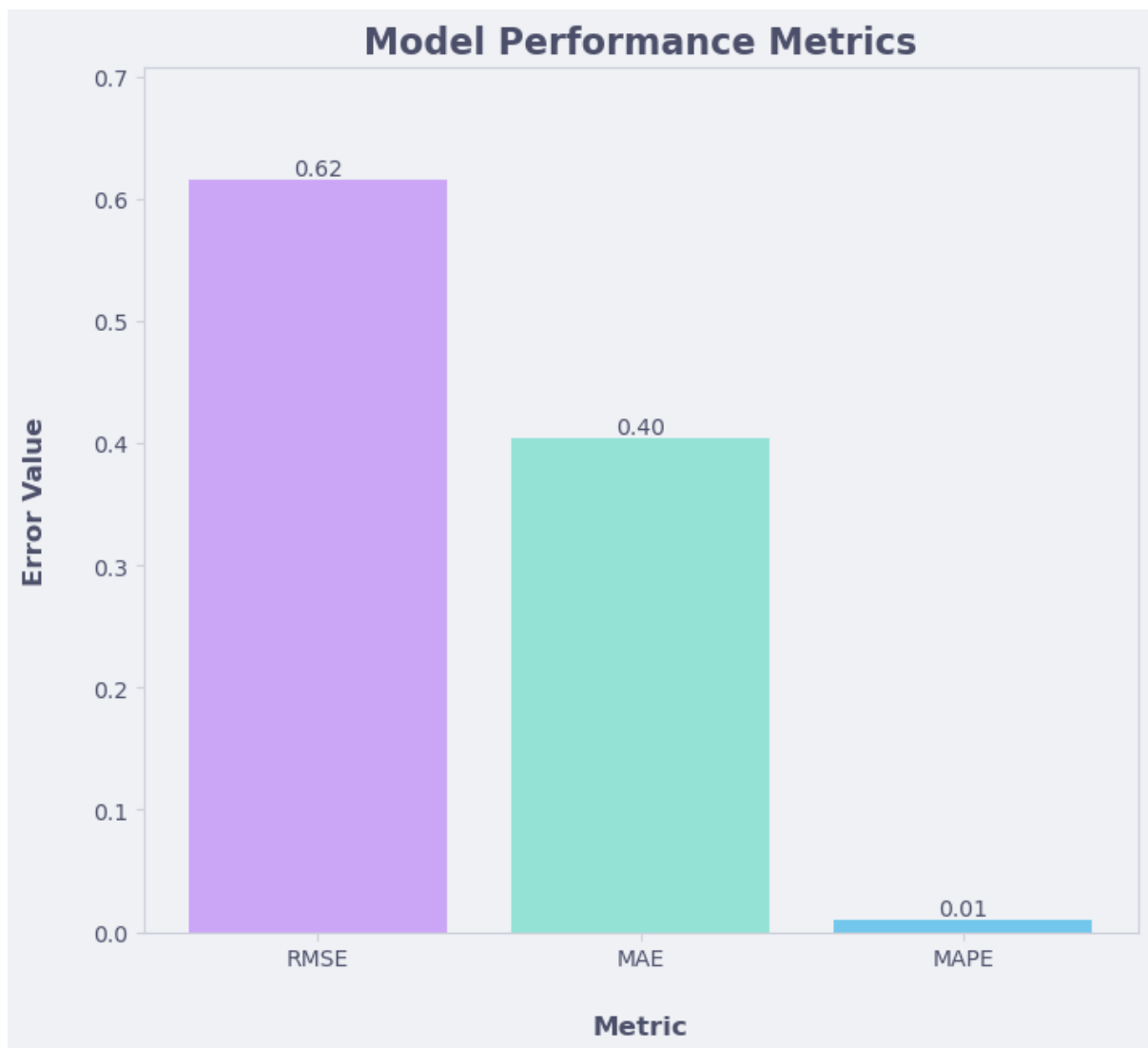
Units: 224

Dropout: 0.02

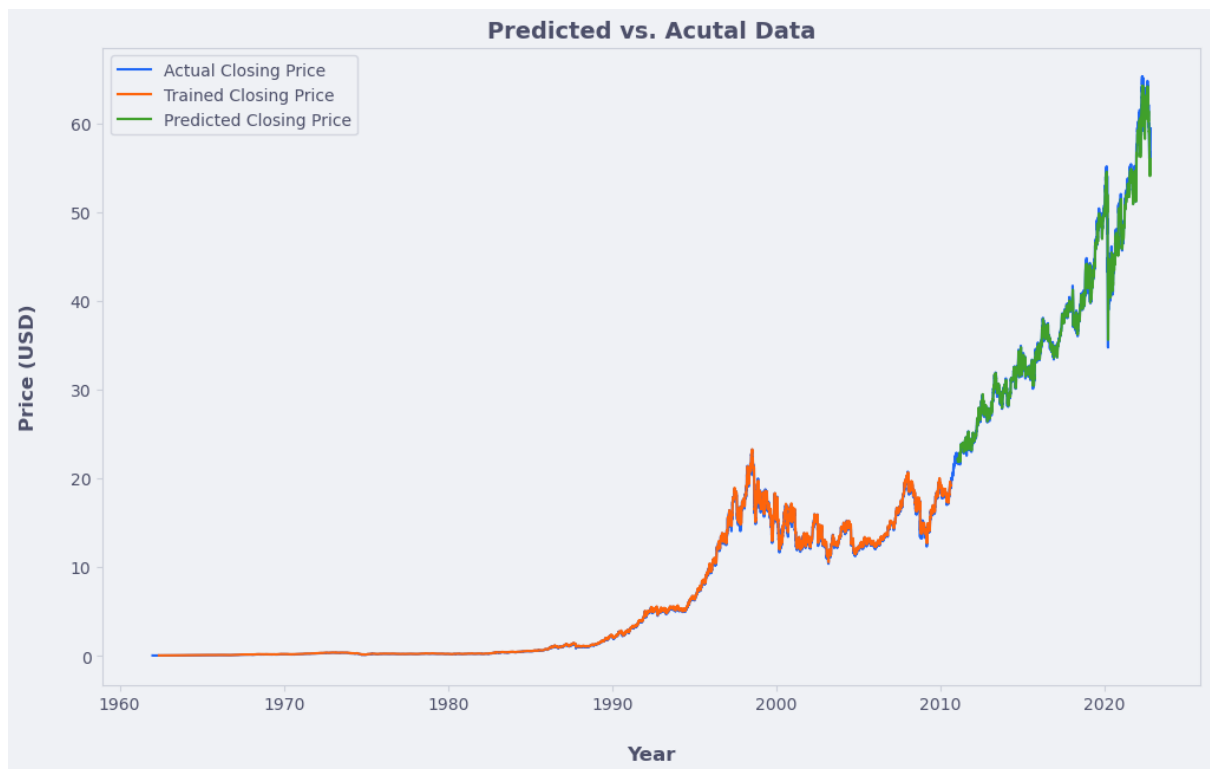
Optimizer: adam

Learning Rate: 0.0005565455205477173

4 Model Accuracy Metrics



5 Predicted vs. Actual Data



6 Price Forecast for the Next 30 Days

