

# CRYPTOCURRENCIES PRICE PREDICTION

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# PROJECT OVERVIEW

## DATABASE

Online Yahoo/Naver/Stooq

## LANGUAGE

Python

## GOAL

Predict price of common cryptocurrency in most accurate way

## CRYPTOCURRENCIES

Bitcoin, Litecoin, Ethereum, Dogecoin



## USED LIBRARIES

### TensorFlow

Key library for this project, open source, machine learning

### Pandas (with dataReader)

Data analysis and manipulation tool, open source

### Matplotlib / Dash / Plotly

Animated, interactive, data visualization

### NumPy

Operation on arrays, matrices and with linear algebra

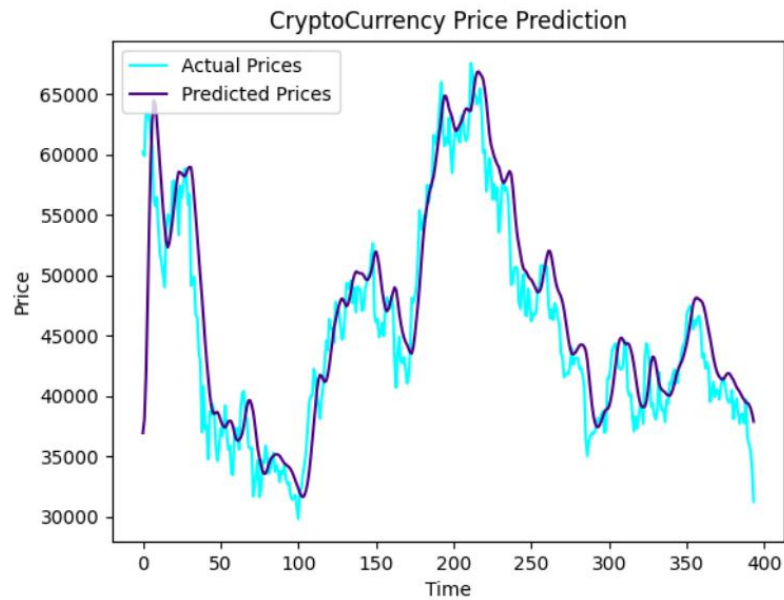
# DATABASE FORMAT

Date	Open	High	Low	Close	Volume
2021-07-12	34836.75	35014.90	34730.15	34996.18	344606907
2021-07-09	34457.51	34893.72	34457.51	34870.16	340542786
2021-07-08	34569.01	34569.01	34145.59	34421.93	374853414

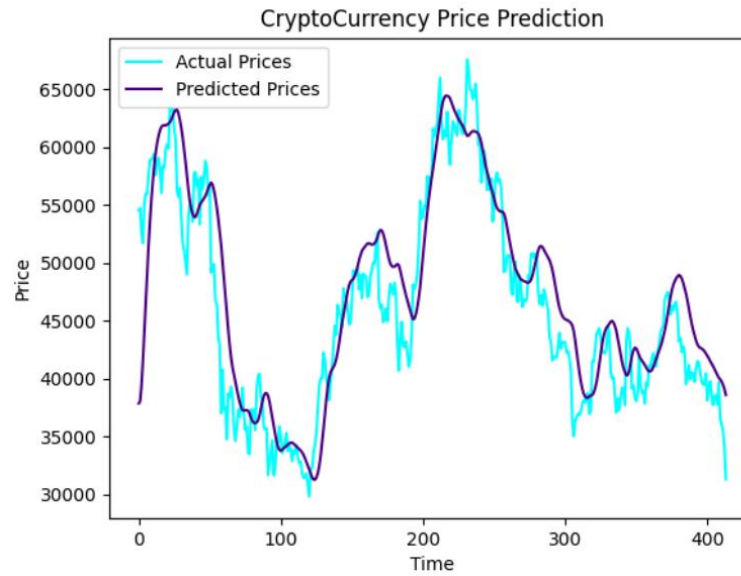
<b>DATE</b>	Date of the trading period
<b>LOW</b>	Lowest price during the trading period
<b>OPEN</b>	Price at the beginning of the trading period
<b>CLOSE</b>	Price at end of the trading period
<b>HIGH</b>	Highest price during the trading period
<b>VOLUME</b>	Total ammount of traing activity during the period

# EXAMPLE CHARTS BTC/USD

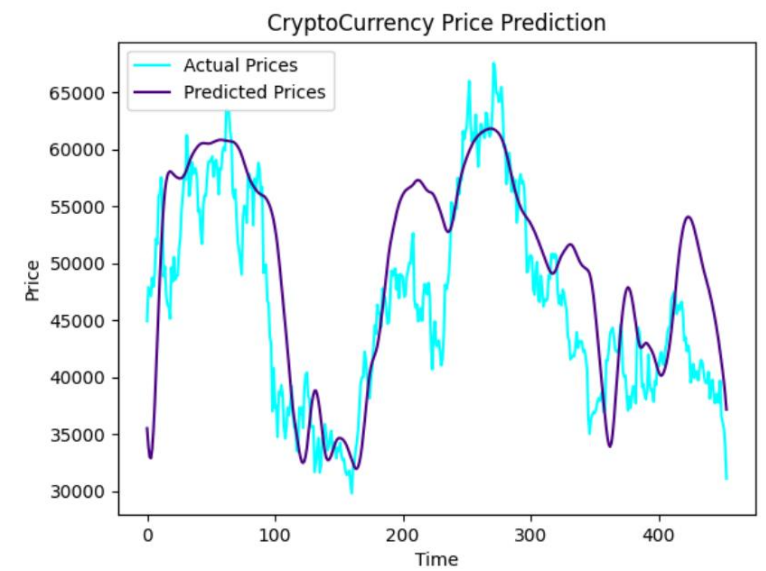
20 DAYS



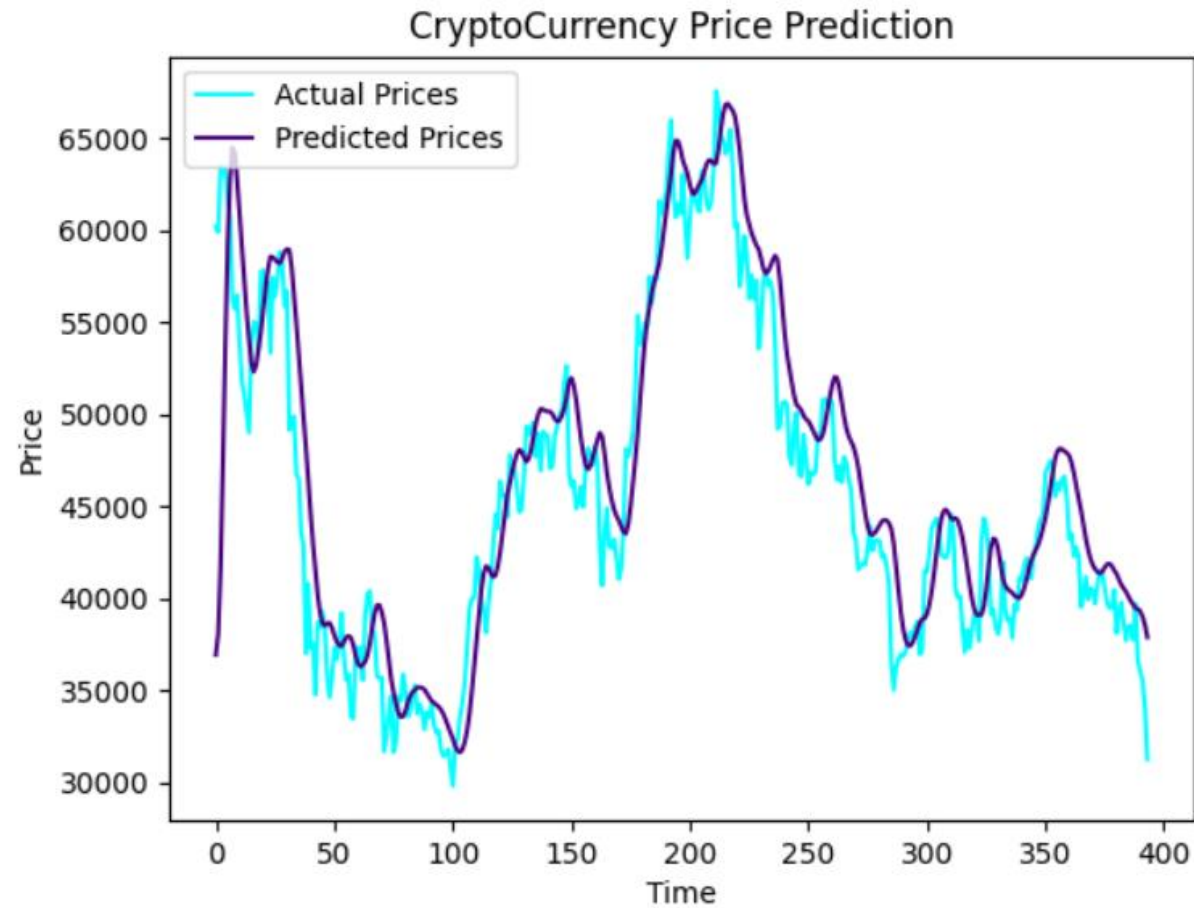
40 DAYS + 20



80 DAYS + 40

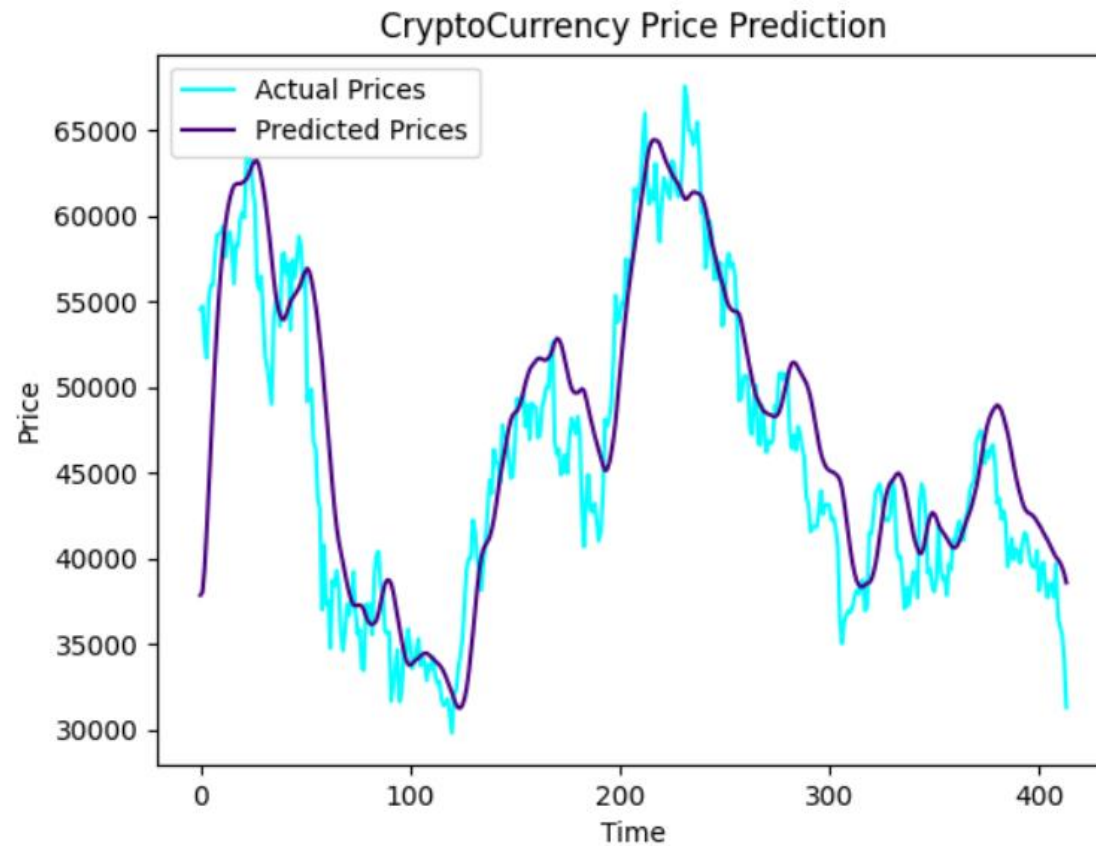


# EXAMPLE CHARTS BTC/USD



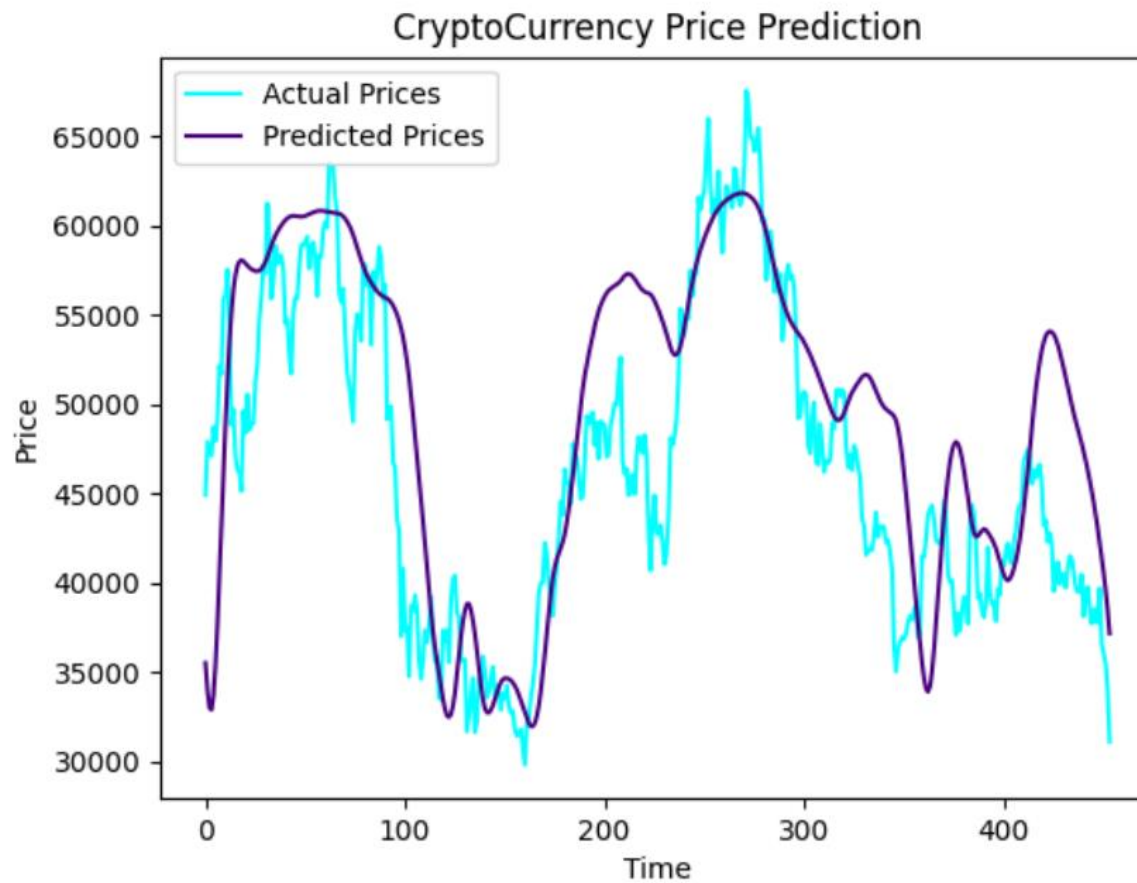
20 DAYS

# EXAMPLE CHARTS BTC/USD



40 DAYS + 20

# EXAMPLE CHARTS BTC/USD



80 DAYS + 40



A decorative graphic consisting of two thin, dark gray lines that intersect. One line is oriented diagonally from the top-left towards the bottom-right, and the other is oriented diagonally from the top-right towards the bottom-left. They cross each other in the upper-left quadrant of the slide.

## SUMMARY

The topic of the project is cryptocurrency price prediction.

It is an interesting topic and there are many methods. I use the most popular libraries.

Changing a few parameters gives visible changes, I need more time to refine the model and enlarge the database.