The Blockchain Guru Project

About Me

Tendai Meda

Bachelors in Mathematics

Data Science Enthusiast

Fun Fact: There are almost 100,000 Bitcoin millionaires
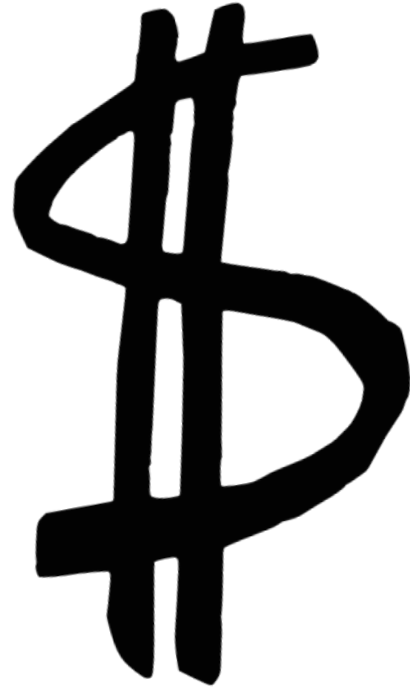

Me

What is the Block Chain Guru Project?

The Block Chain Guru Project

The goal of the project is to predict future cryptocurrency prices for the purpose of helping people make smart investment decisions.
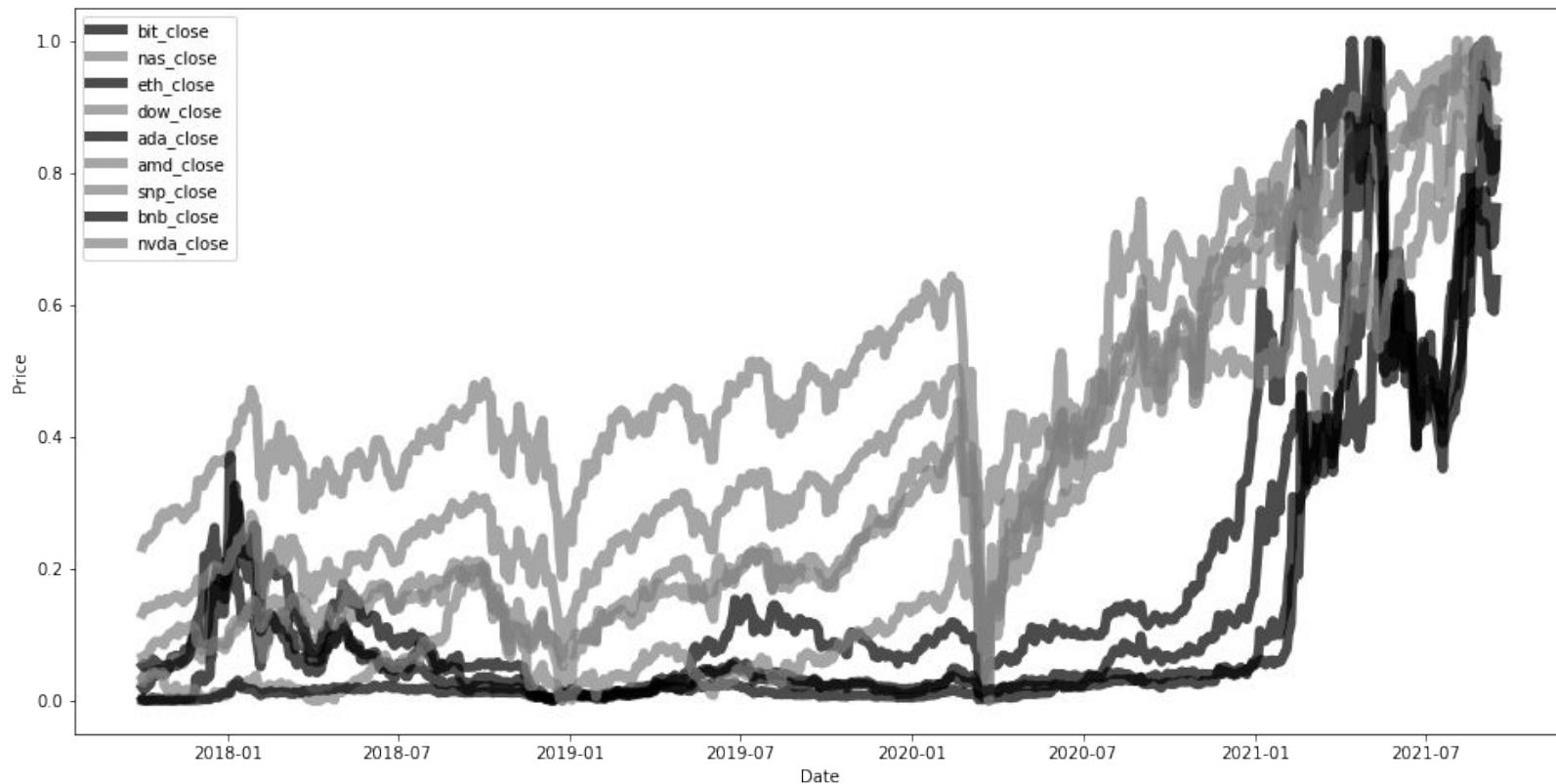
Why would anyone want to invest in cryptocurrency?

Why invest in cryptocurrency?

- Diversification
- Accessibility
- Timing

Why invest in cryptocurrency?

Getting the data

Getting the Data

yahoo! finance

Cryptocurrencies　　Bitcoin　　　　Ethereum　　　BinanceCoin　　　Cardano

Stocks　　Dow Jones　　　NASDAQ　　　S&P 500　　　AMD　　　NVIDIA

Exploring the data
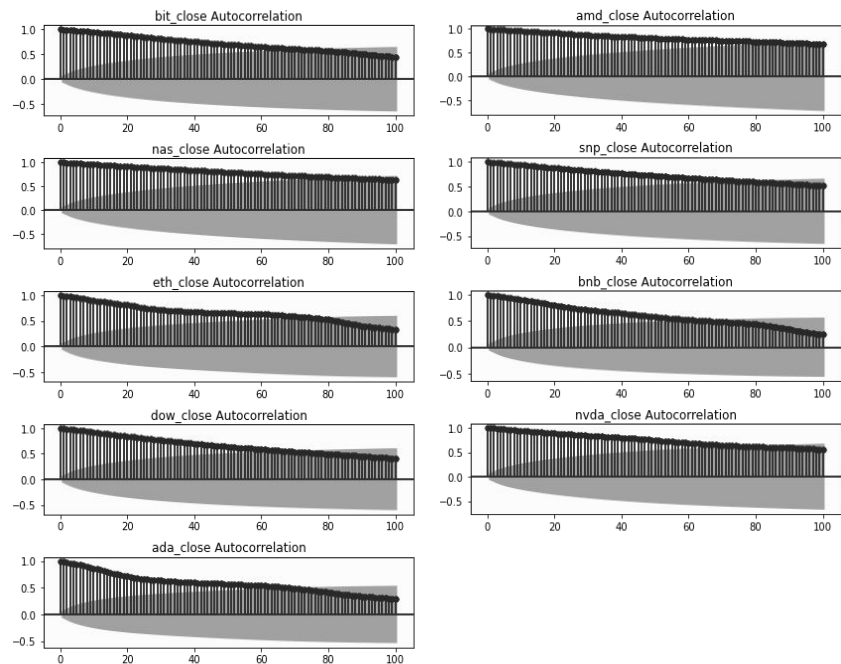
Exploring the data

Index Price Boxplots
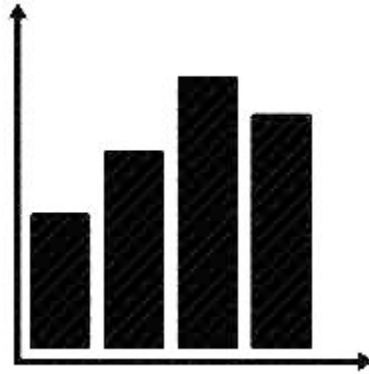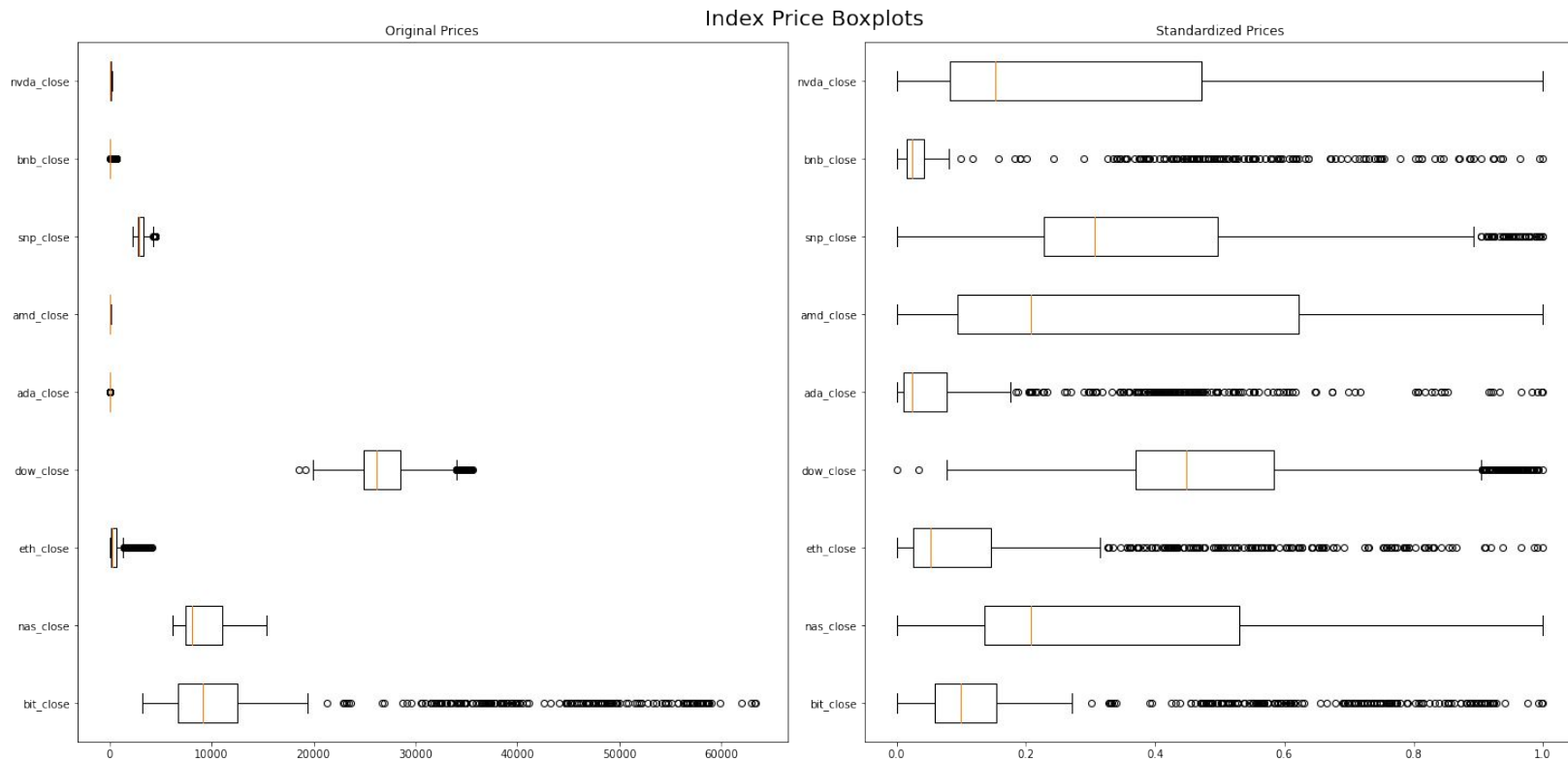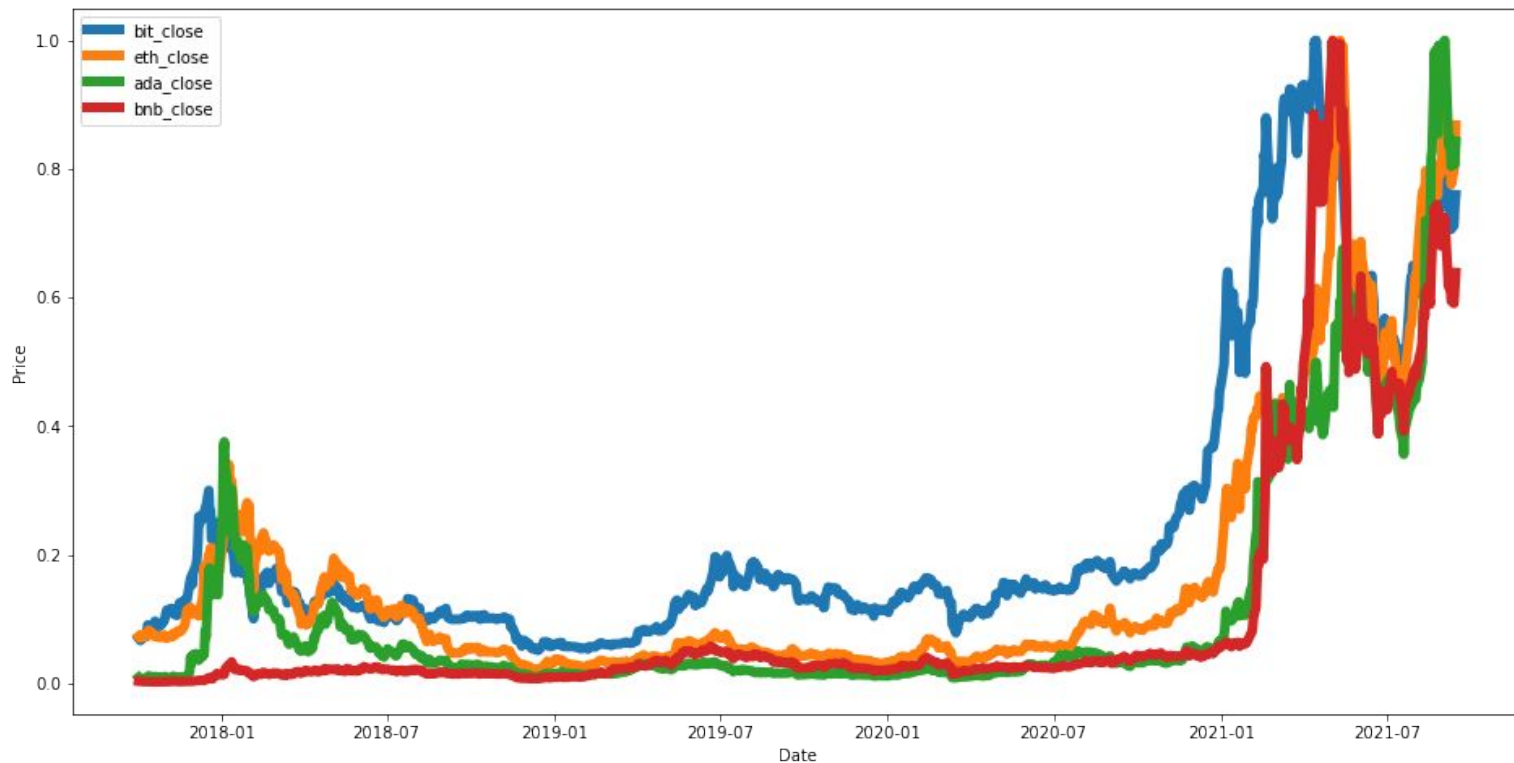
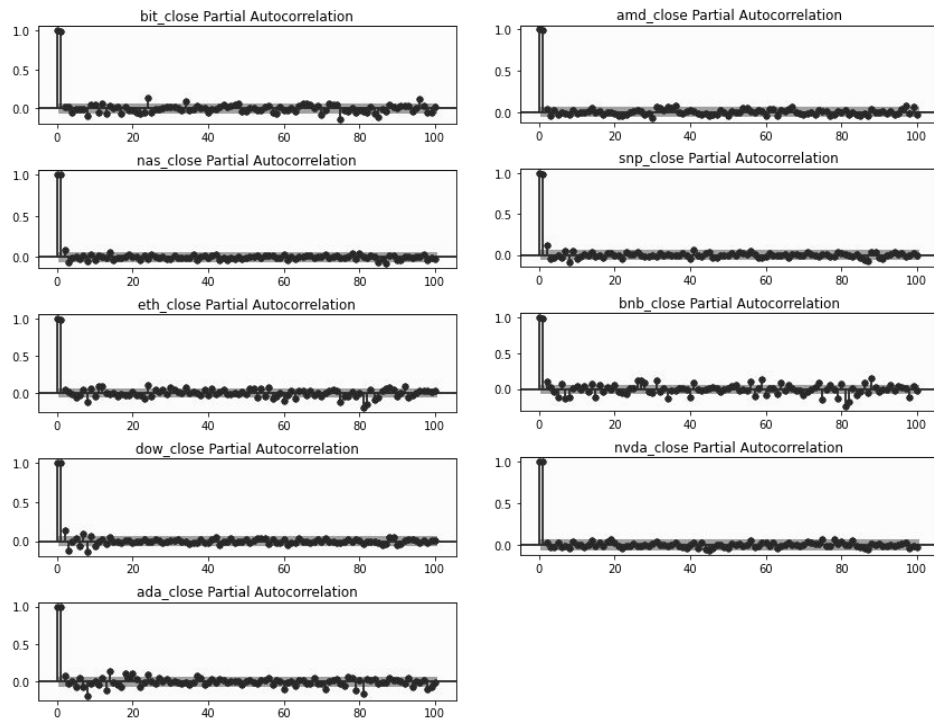# Exploring the data

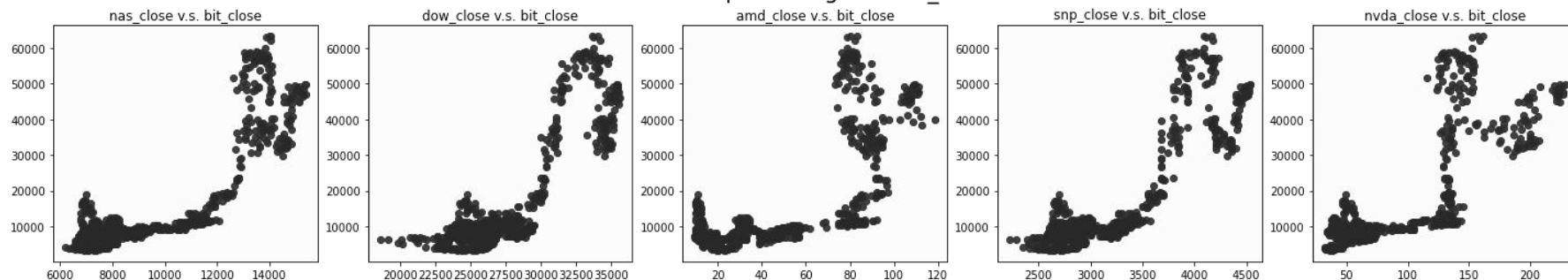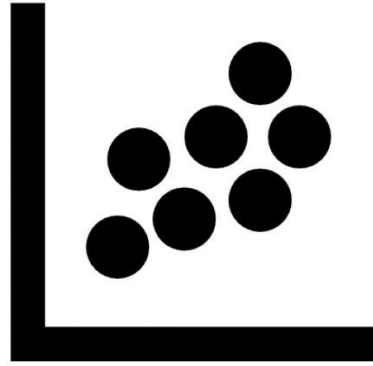# Exploring the data

Autocorrelation

Partial Autocorrelation

Exploring the data

Variables plotted against bit_close

Modeling the data
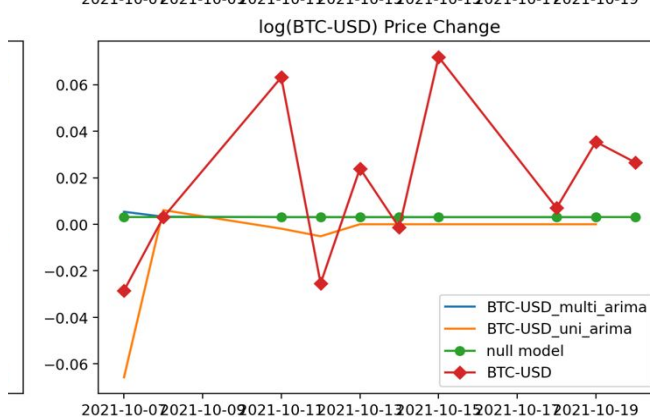
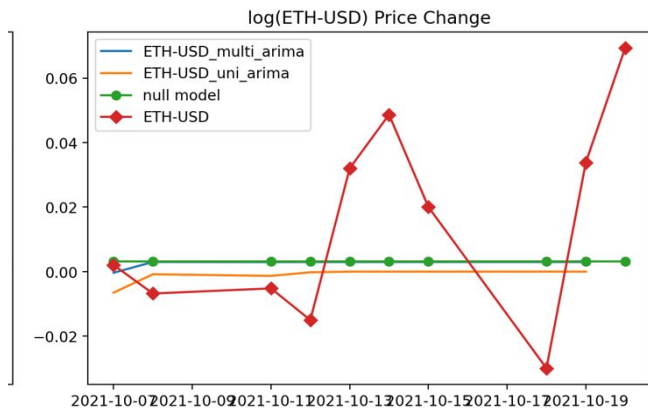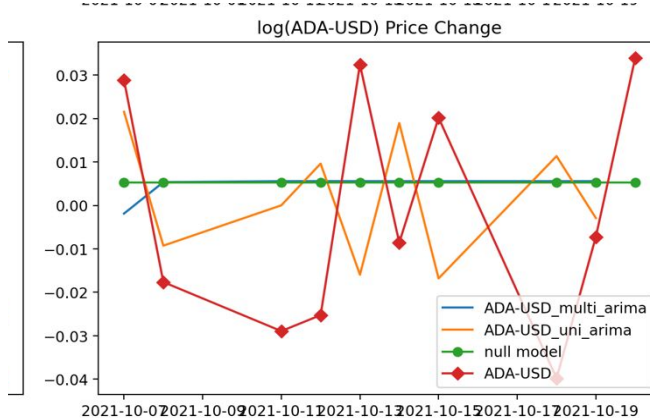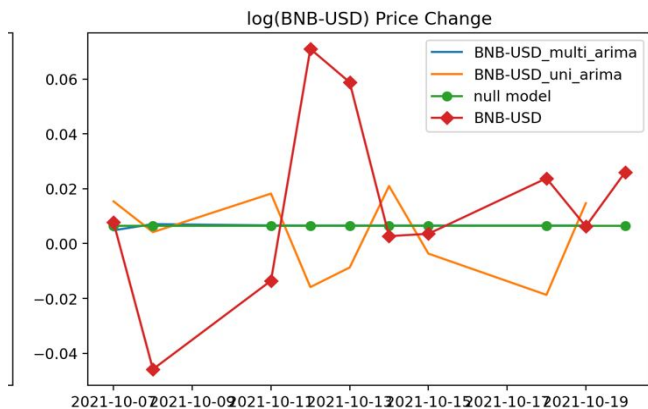# Modeling

I developed 5 models

- ARIMA

- Vector Autoregression model (VAR)

- 2 Linear models

- Monte Carlo Simulation
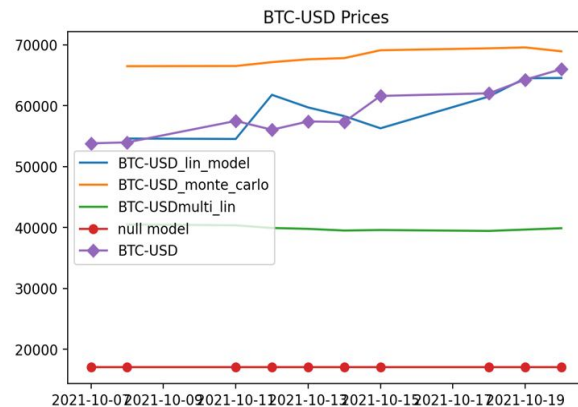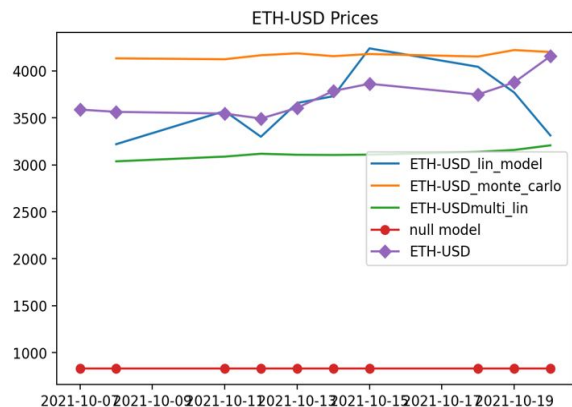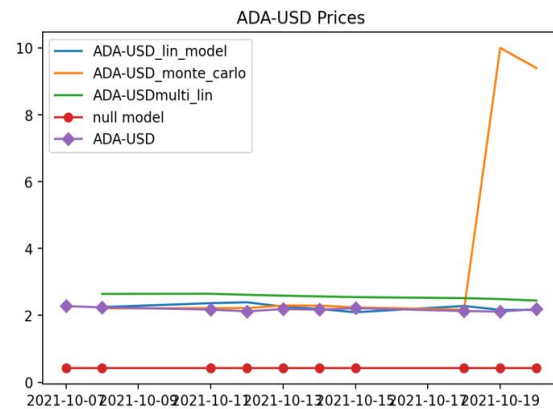
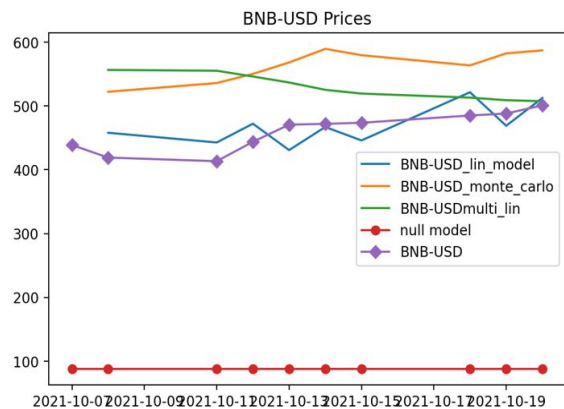Success metric: Akaike Information Criterion (AIC)

Modeling Results

Model	Average AIC
ARIMA	-2400.55
VAR	-67.27
Linear model 1	55.56
Linear model 2	133.87
Monte Carlo Simulation	130.59

Results

Results

Next Steps

Models for more granular data

Cloud computing

More domain knowledge