Ethereum stock price analysis

By NAKSHITH D N

CONTENTS

1. INTRODUCTION
2. DATA EXPLANATION
3. EDA AND DATA VISUALIZATION
4. DATA MODELLING
5. CONCLUSION AND RECOMMENDATION

INTRODUCTION

Ethereum is a fast growing crypto currency which is second to bitcoin. Here we analyse the Ethereum stock price and its variations throughout the year.
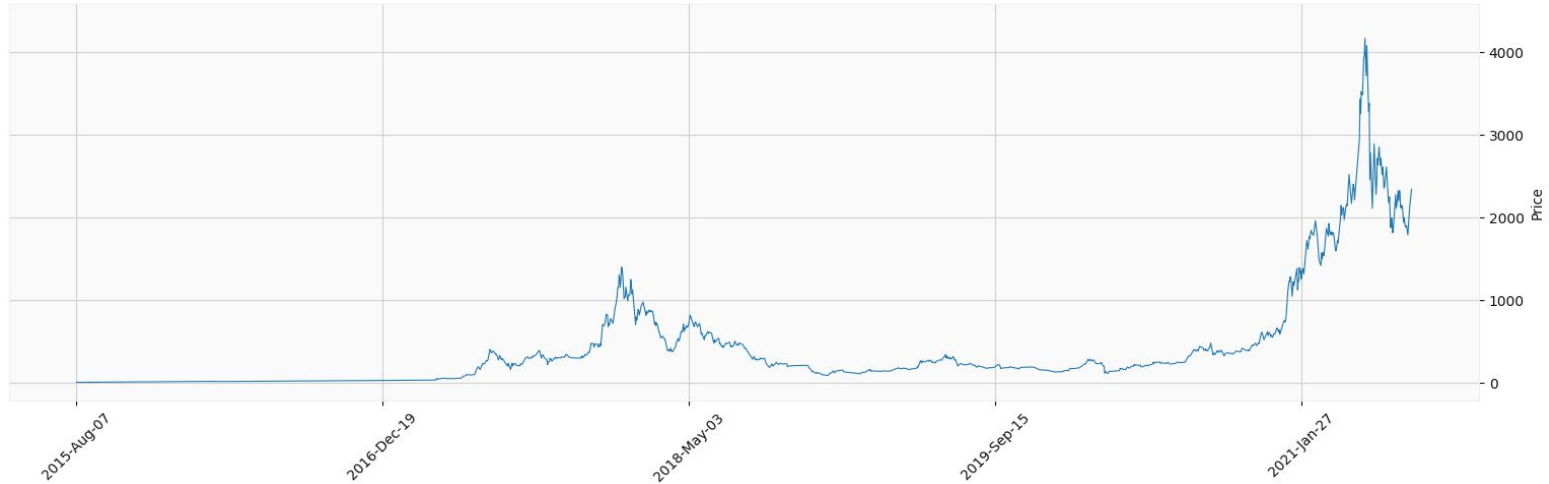
DATA EXPLANATION

This data consists of features date, open , high, low, close, adj close, volume.

This dataset consists of data types which are Object and Float data type.

EDA AND DATA VISUALIZATION

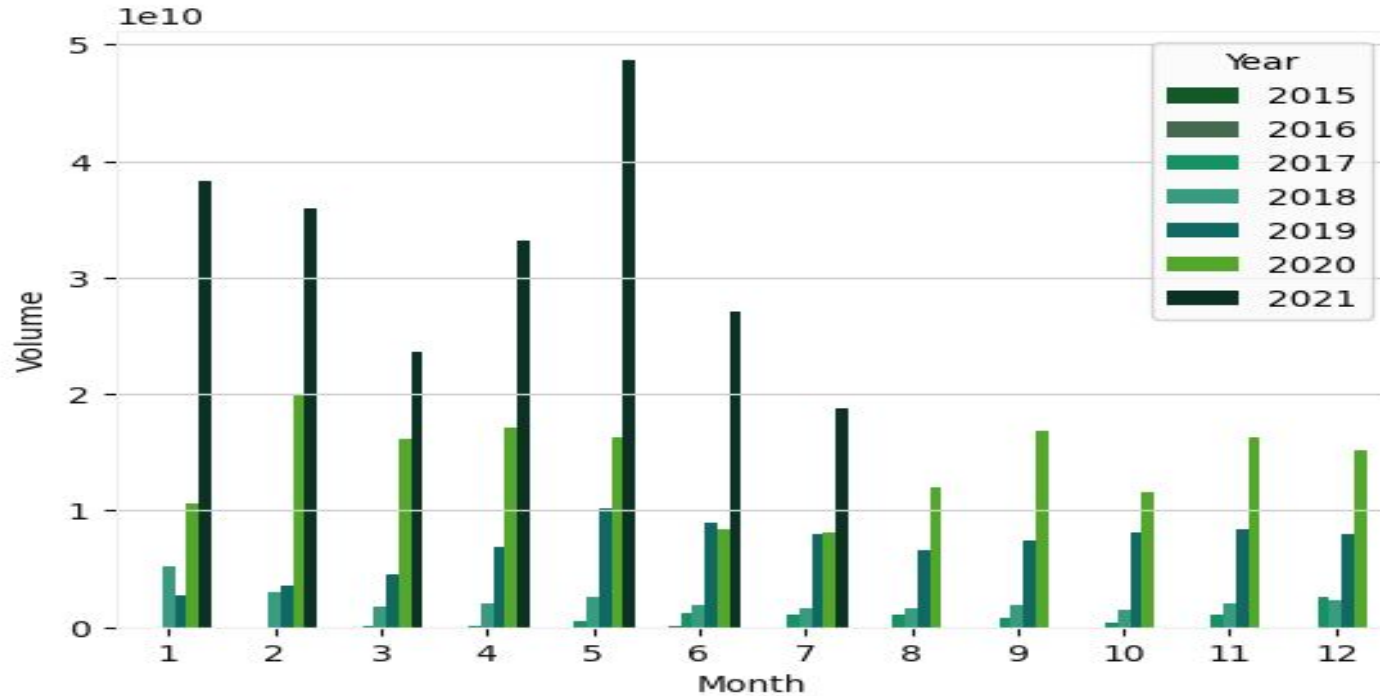This is the plot represents the price changes.

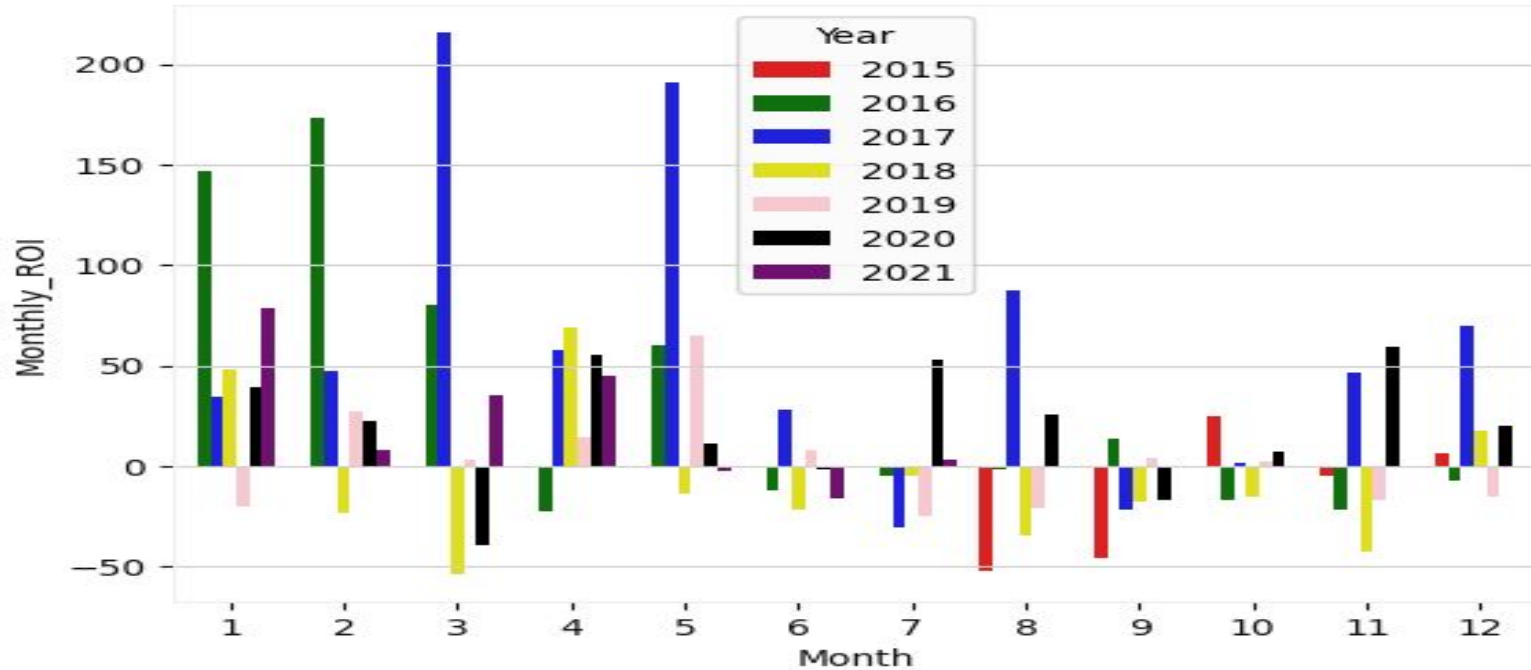This plot represents the price changes in 2017.

This plot shows the price changes in 2021.
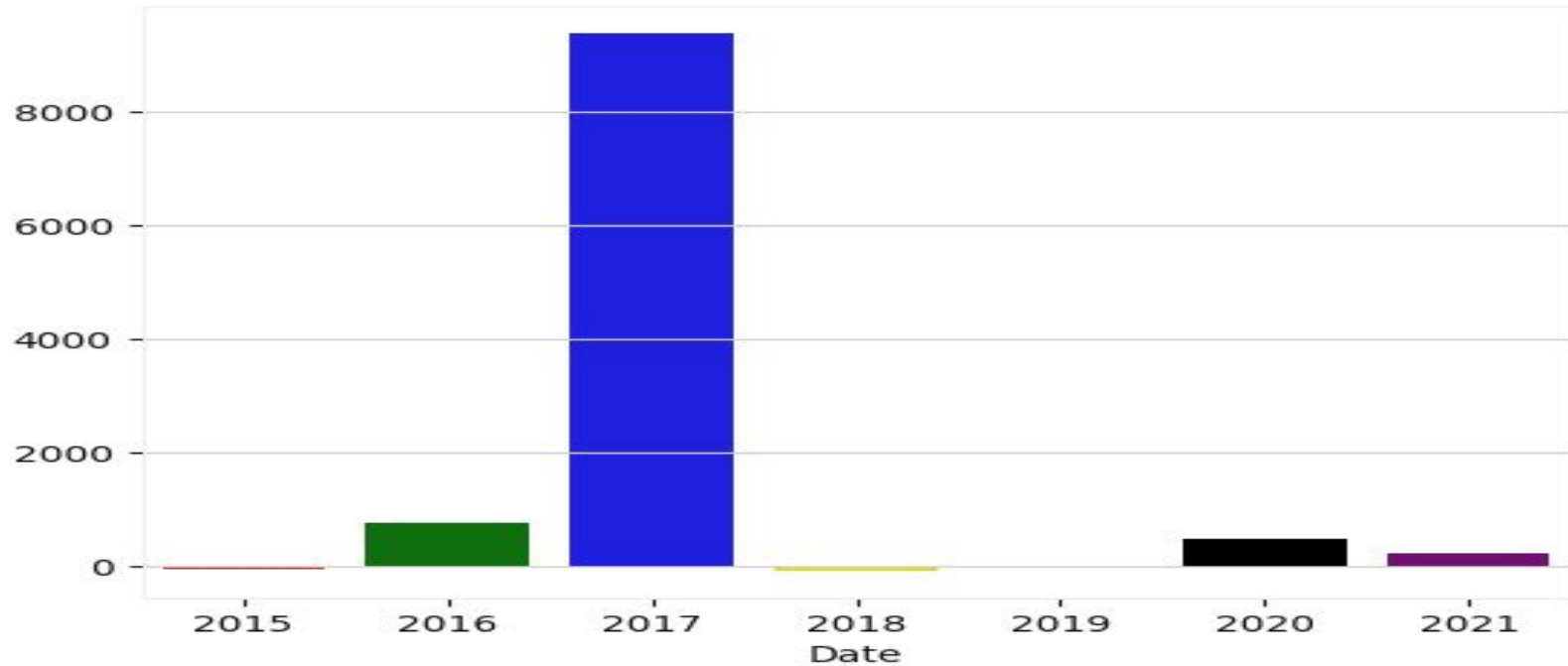
Average Volume Traded Each Month

AVG volume traded in each month.
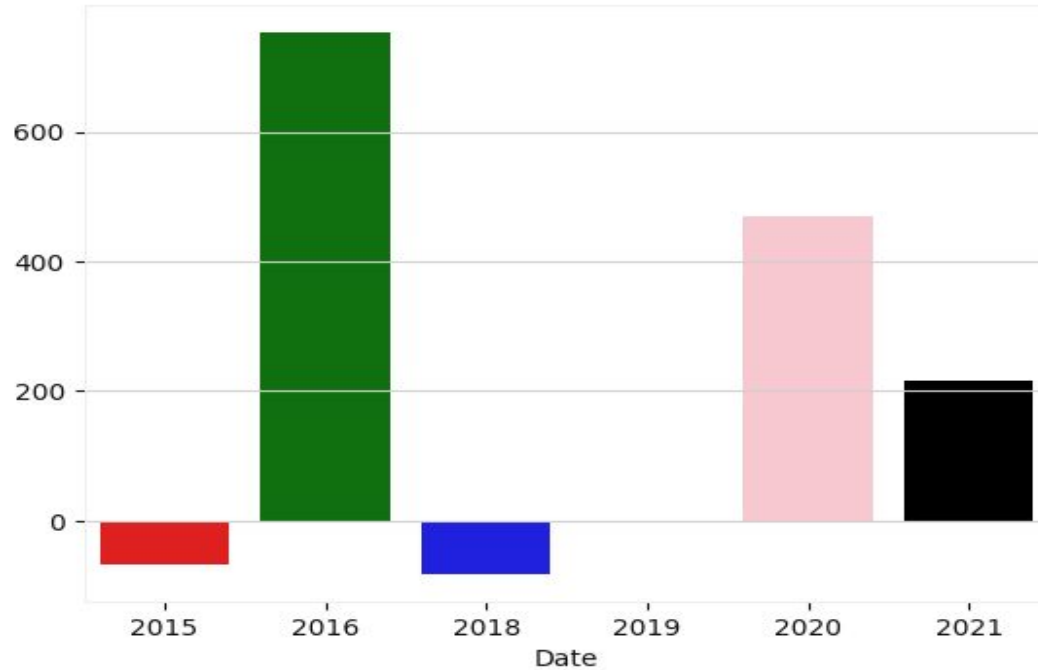
ETH Monthly Return of Investment

Each year's monthly update of return of investment.
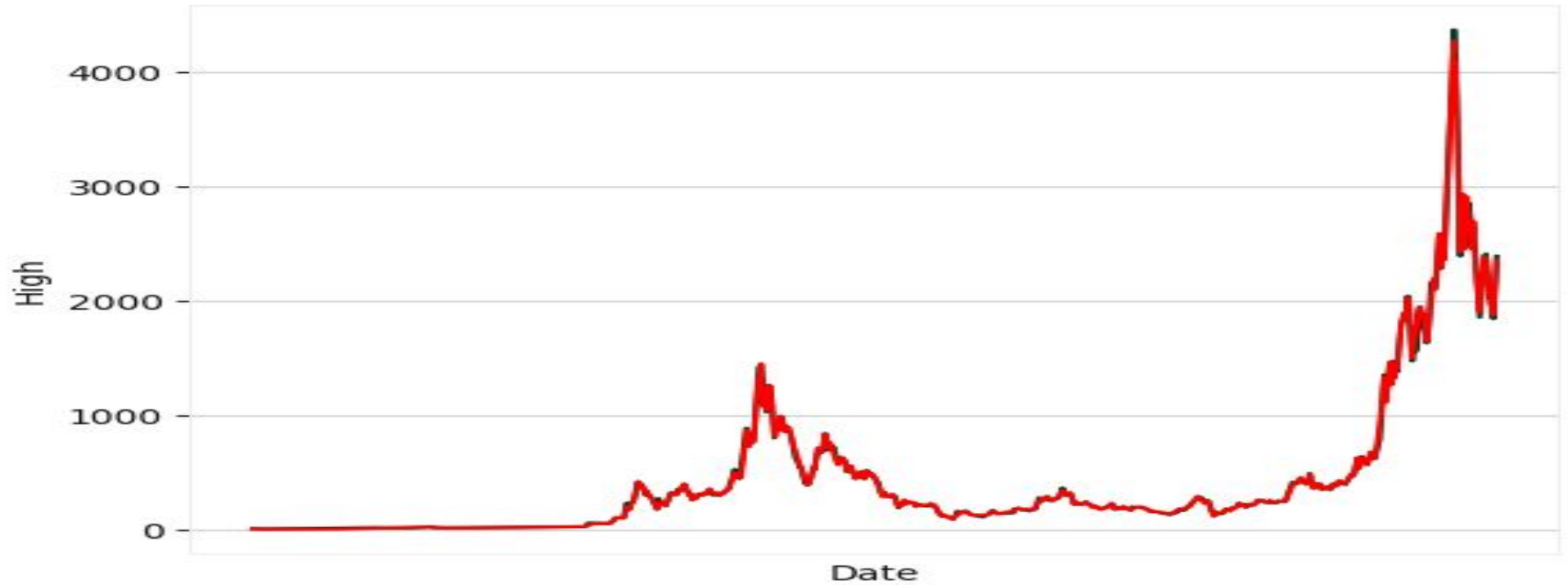
ETH Yearly Return of Investment
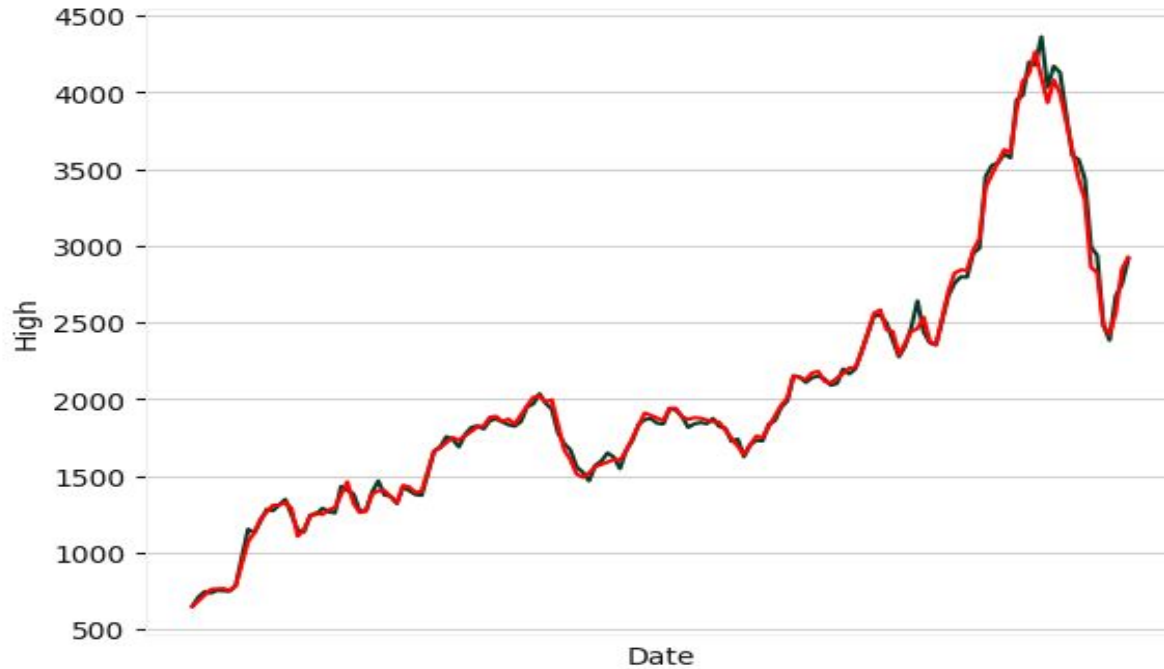

Yearly return of investments.

Early return of investments excluding 2017..

ETH Highest Price

The highest price of the stock.

ETH Highest Price [2020-12-26 -> 2021-05-26]

The highest price reached in the recent years.

Linear regression modelling results

The predicted and actual values are observed and shown in above columns and respective visulizations.

RMSE on train data: 14.49916163487487, R^2: 0.9994814871760181

RMSE on test data: 19.843934676574158, R^2: 0.9991076716918807

CONCLUSION

The exploratory data analysis and feature engineering has been done for the Ethereum dataset its validity has also been checked. The above visualizations represents the variation and sequences in the given dataset and the modelling results are also published.

THANK YOU!!