BITCOIN PREDICTION

- ADARSH R

OBJECTIVE

To analyze the prediction rate of bitcoins by exploring the data using Time series forecasting smoothing techniques.

APPROACH

Importing the libraries

Reading and understanding the dataset

Naive method

Simple Average Method

Simple Average Method – 12 months

Simple Average Method – 6 months

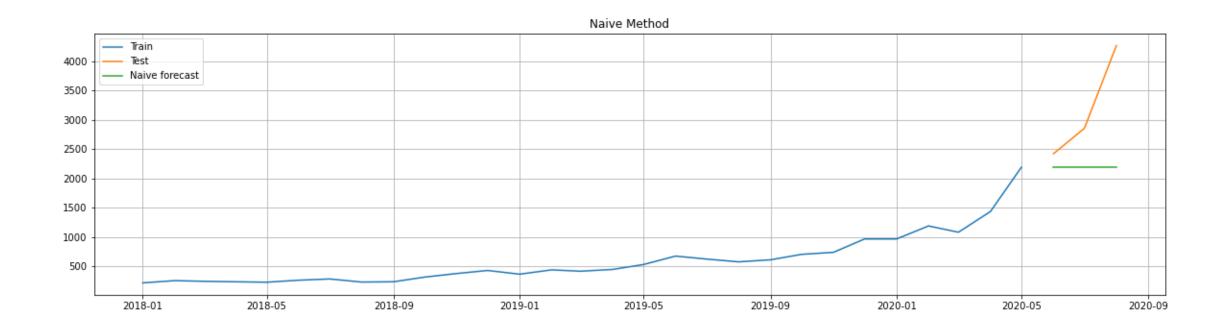
Simple Average Method – 3 months

Simple Moving Average Method

Simple Exponential Smoothing

Holtz Exponential Smoothing

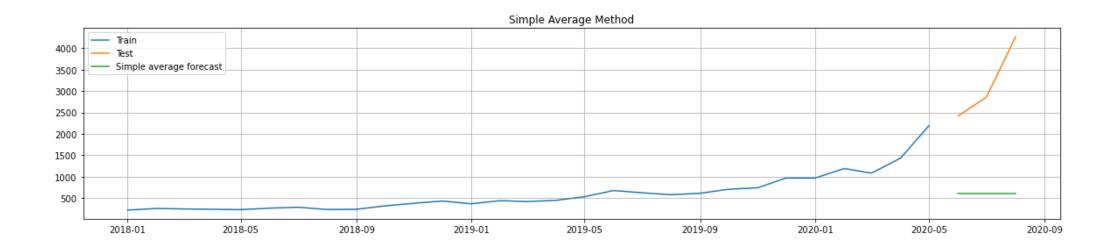
NAIVE METHOD



	Method	RMSE	MAPE
0	Naive method	1265.9	27.12

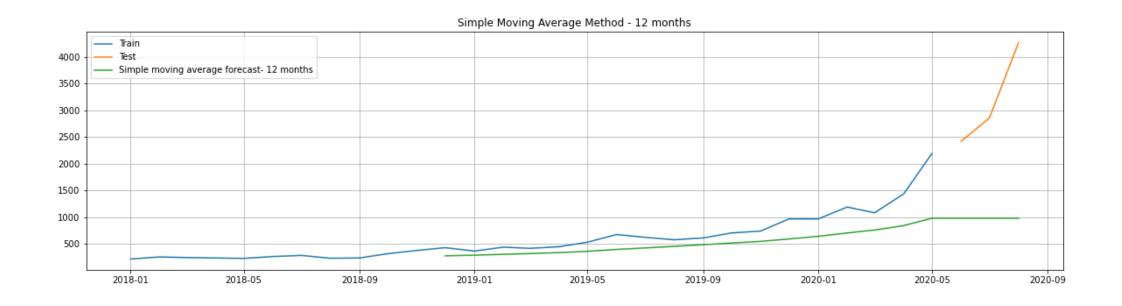
SIMPLE AVERAGE METHOD

RMSE MAPE



Method

SIMPLE AVERAGE METHOD - 12 MONTHS

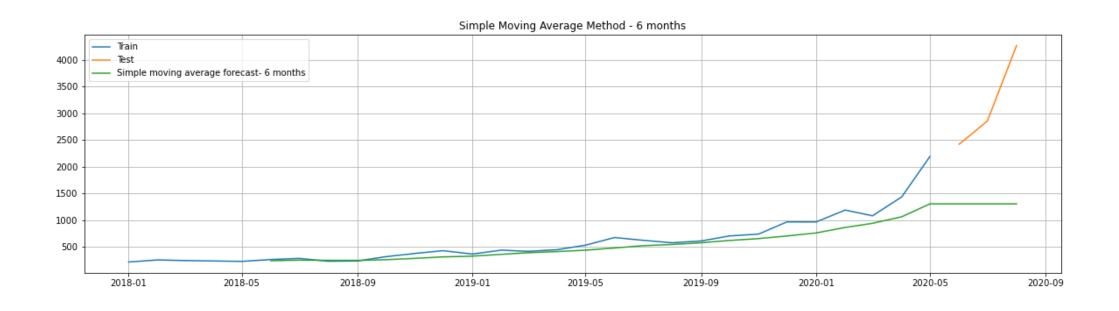


Method

RMSE MAPE

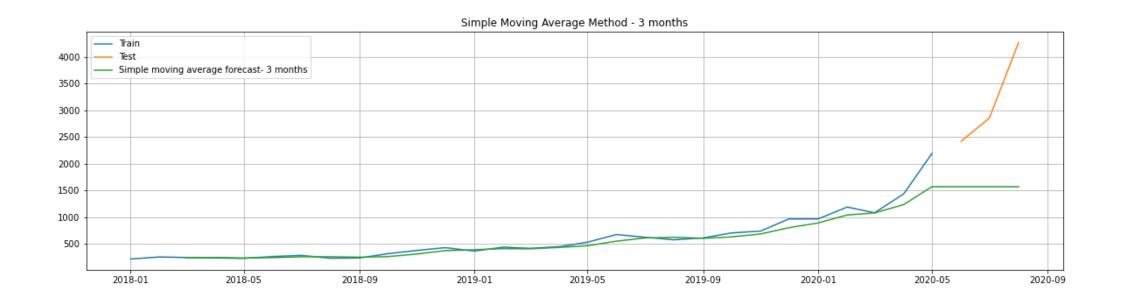
SIMPLE AVERAGE METHOD - 6 MONTHS

RMSE MAPE



Method

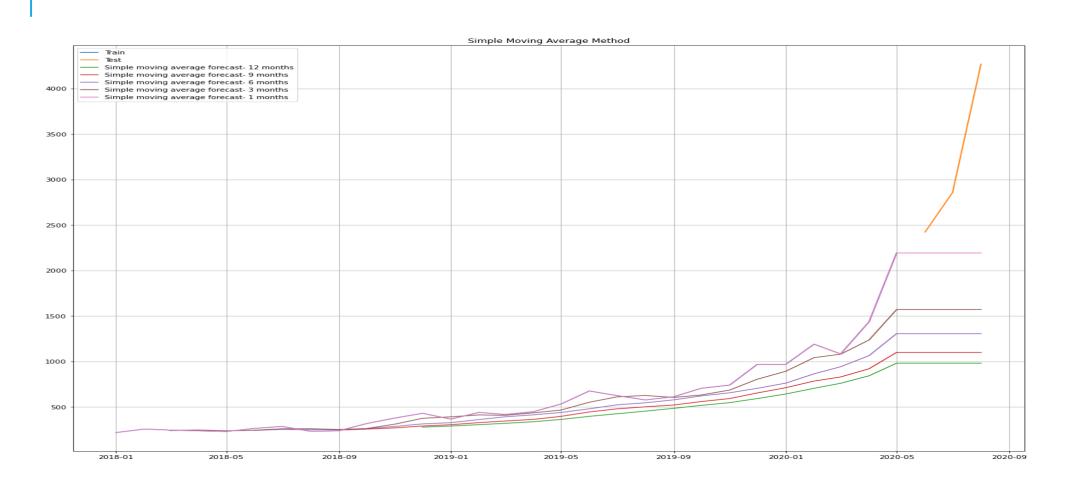
SIMPLE AVERAGE METHOD – 3 MONTHS



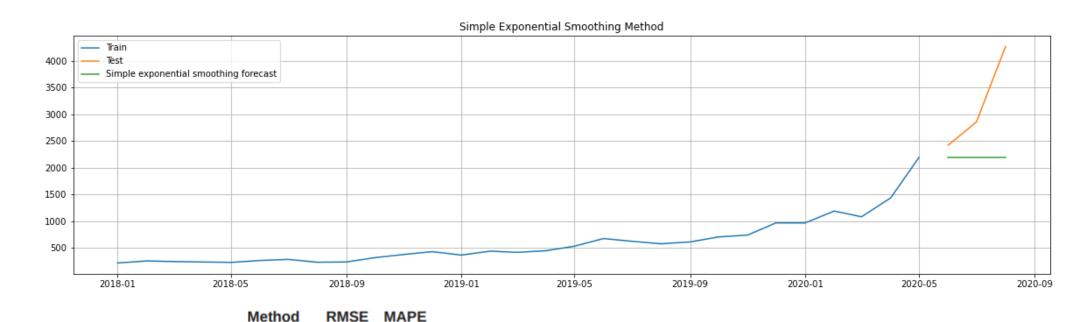
Method

RMSE MAPE

SIMPLE MOVING AVERAGE METHOD



SIMPLE EXPONENTIAL SMOOTHING



SUMMARY

Based on the different methods performed it is found to be that the Holtz exponential smoothing method is found to be better for predicting the price of bit coin.