

# **STOCKS AND CRYPTO** **PRICE PREDICTOR**

**A Project Work Synopsis**

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## **Abstract**

Stocks and Crypto price predictor is a web-app coded in python using different libraries for the logic and the GUI. This will allow user to have a sense of the price in future if all things goes good in market. User need to give the token name or stock name and can select how much duration of prediction he/she want . It will give a idea of price in future using previous year data and pattern.

## **Introduction**

Stocks and Crypto currencies are new era best place to invest and earn profit. Over 10 million of world population is doing trading , and not everyone is so much concern about the studies needed to figure out the pattern and invest their money and earn profit, that's why a huge amount of people losses their money .

We are making a Stock as well as crypto price predictor, through which a user can understand and figure out the average price in future using our predictor. We are giving user freedom to choose between crypto's and stocks. User can set the duration of the prediction and can see the prediction points with the help of a graph . Using graph will let them visualize the data and understand it more clearly.

This will focus on the long term and short term investments and investors , as they can analyze the pattern and trend and can make a strategy to invest at right time.

## **Problem Formulation**

A app which can help to analyze the trend and price pattern through which anyone can invest using their basic knowledge. A one stop prediction app for both crypto and stocks. Easy to use and can predict close to real which can make it more usefull for short term investments too. To tackle short term and long term investments and investors.

## Objectives

- To make prediction of stocks and crypto easier for beginners.
- To help long term investors invest and predict their average profit.
- To see the trend at one glance and prepare their strategy for investment.
- Long term and short term investors can use and invest.

## Methodology

We will use the yahoo finance or pandas python packages and will download the csv file from the date we will want . According to user input , we will fetch the info . We will make a controller to set the duration of prediction . Then we will load the data from the starting date to the date user sets. We will plot the graphs till the date user gives. We will now make a function in which will predict the prices using the some packages . We will display it on the screen using plotly.

Also thinking to add some components of prediction like trend , etc using graph .

We will make web-app using some open source packages like streamlit, etc. for gui and front end .

We will also try to make it real time prediction according to the world's news that can affect the prices of stocks and crypto.

## **Advantages :**

- *Easy to use interface*
- *Can predict almost close to real in long term*
- *Have freedom to choose any stocks and crypto coins.*
- *Help to analyze the trend and pattern*

## **Disadvantages :**

- *Can't predict 100% accurate results.*
- *Not for intra-day traders*
- *Not for very short term investments*



## References

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