



Cryptocurrency Portfolio Tracker

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ABSTRACT

Cryptocurrency Portfolio Tracker is an online platform, such as app or websites, that helps you as an investor to keep track of the changing prices of different coins in your investment. It is tool that helps you to easily monitor the performance of your investment and other cryptocurrencies all in a single view.

Cryptocurrency is a digital currency maintained by a network of computers that uses cryptography algorithm to verify transactions. We can also invest and trade in various cryptocurrency. Nowadays cryptocurrencies are considered as a digital asset. Trading and investing are complicated and we have to analyze fundamentally and technically to trade any pair. We mainly focus on technical analysis and tools required for the technical analysis. The main and basic tool is the price.

Others tools are price pattern, chart pattern and volume. These tools play important role in trading for making better profit and preventing stop loss hit.

Technical analysis is a trading discipline to evaluate investments and identify trading opportunities for making profit and preventing losses. To become successful traders, we have to follow the different paths but the common and the most important one is reading and analyzing price pattern.

I am going to develop a platform which is going to help the traders to analyze the price pattern in real time and help them to become a successful trader.

INTRODUCTION

Cryptocurrency portfolio tracker is an online platform, such as an app or website, helps you as an investor to keep track of the changing prices of different coins in your investment. It is tool that helps you to easily monitor the performance of your investment and other cryptocurrencies all in a single view.

Cryptocurrency are the digital assets and are a new type of financial instrument that have received a huge amount of interest for the investors in recent years. The first cryptocurrency was Bitcoin created by **Satoshi Nakamoto (2008)** that can be transferred from peer -to- peer network. Cryptocurrency basically work on blockchain technology which is considered as safest and non-hackable technology.

In trading cryptocurrency, we do not consider the fundamental properties of cryptocurrencies, but we only consider the technical aspects that is movement of price, chart pattern, demand and supply (volume) of cryptocurrencies.

1.1. Problem Objective

We are going to develop a platform from where we can track **Prices, details, charts, and market capitalizations** of cryptocurrencies and our Portfolio.

We can also analyze chart pattern to know whether price will go up or down also analyze according to market capitalizations to know which coin is best.

1. Related Previous Work

- Cryptocurrencies are asset on a blockchain that can be exchanged or transferred peer to peer. It is possible to distinguish those whose quantity is fixed and price market determined.
- Different trading platform were developed but some of them have problems that cause issue in the trading.
- Cryptocurrency exchange is a online platform that allows customers to trade and invest in cryptocurrencies.
- Given below table shows the top or classical cryptocurrency exchanges.

Table 1
Cryptocurrency exchanges Lists

Exchanges	Category	Supported currencies	Fiat Currency	Registration country	Regulatory authority
CME	Derivatives	BTC and Ethereum [71]	USD	USA [73]	CFTC [72]
CBOE	Derivatives	BTC [59]	USD	USA [58]	CFTC [60]
BAKKT (NYSE)	Derivatives	BTC [15]	USD	USA [16]	CFTC [15]
BitMex	Derivatives	12 cryptocurrencies [31]	USD	Seychelles [32]	-
Binance	Spot	98 cryptocurrencies [27]	EUR, NGN, RUB, TRY	Malta [181]	FATF [26]
Coinbase	Spot	28 cryptocurrencies [76]	EUR, GBP, USD	USA [37]	SEC [77]
Bitfinex	Spot	> 100 cryptocurrencies [28]	EUR, GBP, JPY, USD	British Virgin Islands [29]	NYAG [30]
Bitstamp	Spot	5 cryptocurrencies [33]	EUR, USD	Luxembourg [34]	CSSF [35]
Poloniex	Spot	23 cryptocurrencies [213]	USD	USA [213]	-

2. Methodology

In this system the framework consists mainly 4 modules: -

1. Interpretation of charts
2. Interpretation of volume
3. Interpretation of price of cryptocurrency using graphs
4. Drawing of graphs

3.1.1 Interpretation of chart

Charts are graphical representations of price information of crypto.

Charts plot the historical data of the price movement happen during the trading hour. Initially, charts were drawn manually but nowadays chart are drawn by computer

3.1.2 Types of charts

The main chart types that are used by the technical analysts are line line chart, bar chart and candlestick chart. Charts can also be presented on an arithmetic or logarithmic scale. The type of chart used by analysts are purely based on individual depending on the type of trading.

3.1.2.1 Bar Chart

Bar chart are the vertical line with a small horizontal line representing the open and close price in particular time frame. The top of vertical line represents the high and the bottom represent the low of the price.

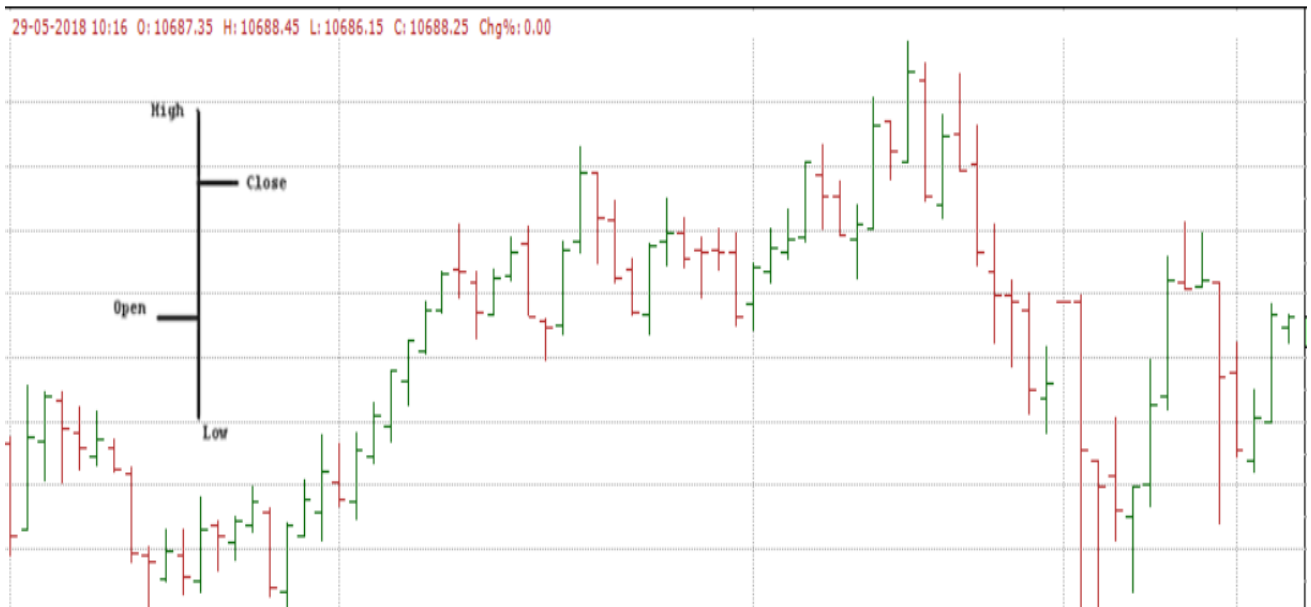


Figure: 3.1

3.1.2.2 Line chart

Line chart are the single zig zag line from left to right linking the closing price.

This chart is mainly used by those who trades on the basis of closing price.



Figure: 3.2

3.1.2.3 Candlestick chart

Candlestick chart looks like a candlestick, with a thick 'body' and a line extending above and below it, representing the high and low of that time frame. The bottom of the body represents the open and close depending on the color of the candle.

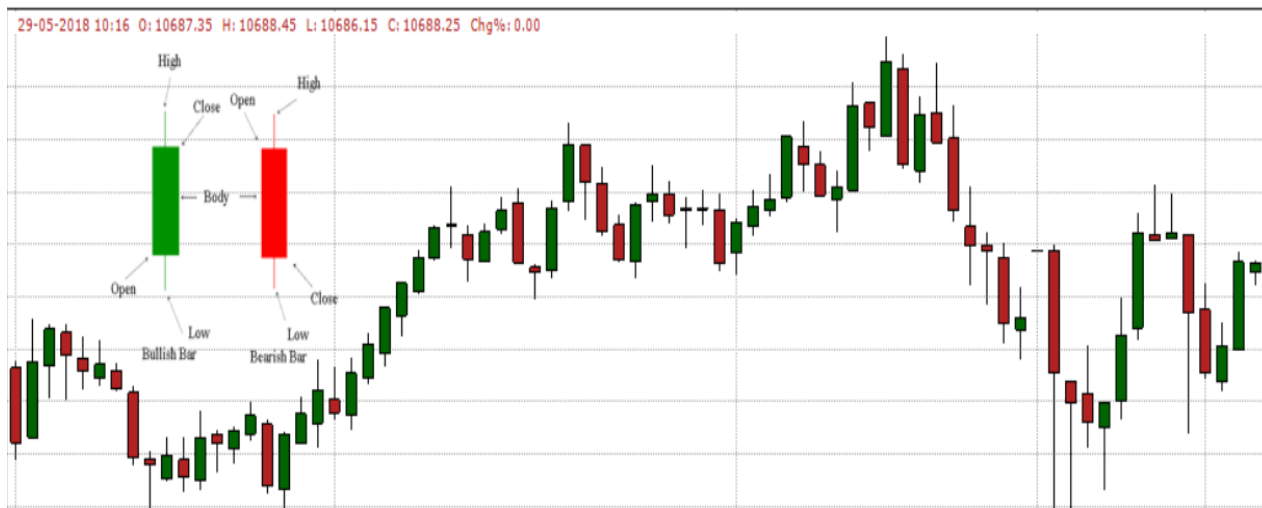


Figure: 3.3

3.1.2.3 Volume Chart

Volume chart represent the total volume of the currency that is traded during trading hour and the time frame of the chart. Chart has different meaning like trading volume is low or trading volume is high depending on the size of the chart.



Figure: 3.4

4.Results



















This section discusses the result obtained after executing the application. The app is installed and executed successfully in mobile. The application shows rank, name, price, ATH (all time high), ATL (all time low), circulating supply, market cap and change in currency value over 24hours.

Welcome Back

Crypto Today

Markets

Favorites

	Bitcoin  BTC	₹ 3129876.0000 +2.35% (+71756.0000)
	Ethereum  ETH	₹ 235997.0000 +1.28% (+2987.2700)
	Tether  USDT	₹ 76.2200 -0.01% (-0.0083)
	BNB  BNB	₹ 31866.0000 -0.51% (-163.0730)
	USD Coin  USDC	₹ 76.0600 -0.01% (-0.0061)
	XRP  XRP	₹ 55.3200 +0.99% (+0.5407)
	Solana  SOL	₹ 8026.9400 +1.55% (+122.3100)
	Terra  LUNA	₹ 6605.5300 +1.54% (+100.0100)
	Cardano  ADA	₹ 73.3900 +0.87% (+0.6338)



Bitcoin (BTC)

₹ 3129876.0000

Price Change (24h)

+2.35% (+71756.0000)

Market Cap

₹ 59547335996489.0000

Market Cap Rank

#1

Low 24h

₹ 3029402.0000

High 24h

₹ 3161036.0000

Circulating Supply

19011337

All Time Low

3993.4200

All Time High

5128383.0000

5.CONCLUSION

4.1. Performance Evaluation

From the results, we can see that when inserting the data from the CRYPTO API, our data is visible in the database. This holds true for all the graphs, prices and ranking of coin.

4.2. Future Directions

I am further planning to incorporate data analysis to study the graphs and investment analysis using our app.

I want to expand my application to not only to the small trader and investor but also to institutional investors and traders.

6.References

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