

- By Preeti Sahani (46)

#### What is Bitcoin?

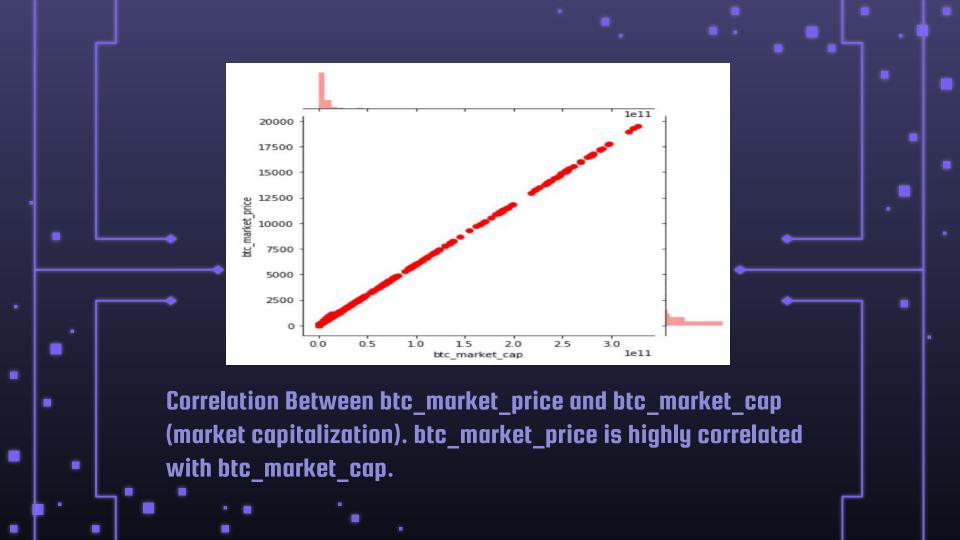
- Bitcoin is a Block-chain Technology
- Powering the cryptocurrency Bitcoin(BTC)
- It is first Decentralized digital currency.
- It is split on August 1st 2017
- It is highly volatile and has higher returns than conventional financial trading.
- Can get Bitcoin by mining
- Can purchase on different crypto providers platform (Coinbase, WazirX, coinDCX, unoCoin)
- Trading is similar to stock market.



#### **Bitcoin Price Prediction**

#### **Overview**

- Imported dataset
- Dealing with correlation
- Dealing with null values
- Model
- Feature Scaling
- Error Evaluation



## Model

For predicting the Bitcoin price, we use LinearRegression() from sklearn.linear\_model.



#### **Features**

```
btc_market_cap
btc_miners_revenue
btc_estimated_transaction_volume_usd
btc_hash_rate
btc_difficulty
btc_trade_volume
btc_cost_per_transaction
```

Features used to predict price.

**btc** market cap: The total USD value of bitcoin supply in circulation. btc\_miners\_revenue : Total value of coinbase block rewards and transaction fees paid to miners. btc\_estimated\_transaction\_volume : The total estimated value of transactions on the Bitcoin blockchain btc hash rate: The estimated number of tera hashes per second the Biteoin network is performing. btc\_difficulty: A relative measure of how difficult it is to find a new block. **btc trade volume:** The total USD value of trading volume on major bitcoin exchanges. btc cost per transaction: miners revenue divided by the number of transactions.

### Result

```
pred = lr.predict(X_test)
pred[0]
```

605.6689857208096

Mean Squared Error = 653.2945043654856

Root Mean Squared Error = 25.55962645199428

```
y_test.iloc[0]
```

Mean Absolute Error = 16.98051426292437

593.33

#### References

https://raw.githubusercontent.com/WidhyaOrg/datasets/master/bitcoin\_dataset.csv

https://slideplayer.com/slide/15717146/

https://price-prediction-of-bitcoin.herokuapp.com/

https://github.com/Preeti-sahani/Bitcoin\_price\_prediction

# Thank you! ... Do you have any questions? ...