## Data List (Predictors)

* **Market Capitalization**: the total dollar value of a company’s outstanding shares. (share priced x total outstanding shares) source: Anticipating Cryptocurrency Prices Using Machine Learning, An empirical study on modeling and prediction of bitcoin prices with bayesian neural networks based on blockchain information site: <https://etherscan.io/chart/marketcap>
  + this will tell us what the market is worth on the open market, it reflects what the investor is willing to pay for the currency.
* **Daily Transactions**: the number of transactions on the ether network. source: What are the main drivers of the bitcoin price? evidence from wavelet analysis, An empirical study on modeling and prediction of bitcoin prices with bayesian neural networks based on blockchain information site: <https://etherscan.io/chart/tx>
* **ERC20 Daily token transfer** (THIS IS A MAYBE NOT SURE IT WOULD BE USEFUL): ERC20 is a standard used for creating and issuing smart contracts on the Ethereum blockchain. sub tokens. source: none site: <https://etherscan.io/chart/tokenerc-20txns>
* **Unique Addresses** (THIS IS A MAYBE NOT SURE IT WOULD BE USEFUL): total distinct number of address on the ether network. source: An empirical study on modeling and prediction of bitcoin prices with bayesian neural networks based on blockchain information site: <https://etherscan.io/chart/address>
  + looking at the daily increase could be useful to price prediction
* **Trading Volume**: number of coins exchanged in a day. source: Anticipating Cryptocurrency Prices Using Machine Learning, An empirical study on modeling and prediction of bitcoin prices with Bayesian neural networks site: <https://coinmarketcap.com/currencies/ethereum/historical-data/>
* **Google Trends:** the amount of searches for the word “Ethereum”. source: What are the main drivers of bitcoin, Cryptocurrency Price Prediction Using Tweet Volumes and Sentiment analysis site: <https://trends.google.com/trends/explore?geo=CA&q=ethereum>
* **Market Beta:** this will calculate the volatility of Ethereum source: Factors Influencing Cryptocurrencies site: this will need to be calculated manually.
* **Average Transaction Fee:** the daily average amount in USD spent per transaction on the Ethereum network. source: Factors Influencing Cryptocurrency Prices, An empirical study on modeling and prediction of bitcoin prices with bayesian neural networks based on blockchain information site: <https://etherscan.io/chart/avg-txfee-usd>
* **Network Difficulty:** the mining difficulty of the Ethereum network. source: Factors Influencing Cryptocurrency Prices, An empirical study on modeling and prediction of bitcoin prices with bayesian neural networks based on blockchain information site: <https://etherscan.io/chart/difficulty>
* **Hash Rate:** the measure of the processing power of the Ethereum network. source: Factors Influencing Cryptocurrency Prices, An empirical study on modeling and prediction of bitcoin prices with bayesian neural networks based on blockchain information site: <https://etherscan.io/chart/hashrate>
* **Bitcoin Price:** the price of bitcoin source: none site: <https://coinmarketcap.com/currencies/bitcoin/>
* **Order Book Data:** spread, ask/bid depth, depth difference, ask/bid volume, volume difference, weighted spread, ask/bid slope. source: Bitcoin Volatility Forecasting site: I would need to collect this data over a period of time
* **Tweet Volumes:** the amount of tweets that use the word Ethereum. source: Cryptocurrency Price Prediction Using Tweet Volumes and Sentiment analysis site: <https://bitinfocharts.com/comparison/tweets-btc-eth-ltc-doge.html#3y>
* **News Sentiment:** the general news sentiment of a crypto news aggregator regarding the crypto market. source: Sentiment Analysis of News for Effective Cryptocurrency Price Prediction site: <https://cryptonews-api.com/>
* **Average Block Size:** average block size in bytes of the Ethereum blockchain. source: An empirical study on modeling and prediction of bitcoin prices with bayesian neural networks based on blockchain information site: <https://etherscan.io/chart/blocksize>
* **Network Transaction Fee Chart:** number of ether paid as a fee for the Ethereum network. source: An empirical study on modeling and prediction of bitcoin prices with bayesian neural networks based on blockchain information site: <https://etherscan.io/chart/transactionfee>
* **Bitcoin Hash Rate:** the hash rate of bitcoin. source: none site: <https://www.blockchain.com/charts/hash-rate>
* **Macro Economics:** S&P500, Eurostoxx, DOW30, NASDAQ, Crude oil, SSE, Gold, VIX, Nikkei225, FTSE100. source: An empirical study on modeling and prediction of bitcoin prices with bayesian neural networks based on blockchain information site:
* **Daily Active Ethereum Address:** unique addresses that were on the Ethereum network as senders or receivers source: site: <https://etherscan.io/chart/active-address>