**Cryptocurrency price prediction**

**What is cryptocurrency?**

A cryptocurrency is a digital or virtual currency that is secured by cryptography, which makes it nearly impossible to counterfeit or double-spend. Many cryptocurrencies are decentralized networks based on blockchain technology—a distributed ledger enforced by a disparate network of computers. A defining feature of cryptocurrencies is that they are generally not issued by any central authority, rendering them theoretically immune to government interference or manipulation.

The word “cryptocurrency” is derived from the encryption techniques which are used to secure the network. Blockchains, which are organizational methods for ensuring the integrity of transactional data, are an essential component of many cryptocurrencies.

**Process**

1. Getting real time cryptocurrency data
2. Prepare data for training and testing
3. Predict the price of cryptocurrency
4. Visualize the prediction results

**Dataset Description**

Close price – It is the market close price for currency

High Price – Highest price for currency that day

Low price – Lowest price for the currency that day

Open price – Market open price for currency for that day

Volume – Volume of currency that is being in trade for that day

We have used Canadian exchange rate and stored real time data into pandas data-frame.

**LSTM**

It is a type of recurrent neural network capable of learning order dependence in sequence prediction problems. This is a behavior required in complex problem domains like machine translation, speech recognition and more.

**Mean Absolute Error**

It is a measure of errors between paired observations expressing the same phenomenon. This is a scale dependent accuracy measure and therefore, can’t be used to make comparisons between series using different scales.