Abstract— In this digitalized world people are getting advanced. Even currencies are going digitalized too. So this digital currency is known as cryptocurrency. Cryptocurrency is a digital currency created to serve as a trading medium in which individual coin ownership documents are stored in a computerised database format in a record using powerful cryptography to encrypt transaction records, monitor the production of extra coins, and check the transfer of coin ownership. Crytocurrency will be easily used in investment, paying tuition, donating to charities, paying for services and purchasing simple goods. So I will be predicting the use of cryptocurrency. Most industries started using cryptocuurency. The investigation work use the cryptocurrency prediction for data analysis. Data analysis is mainly used by data scientists to capture important informations. The observation from collecting the data will be used in making decisions by the company initiative.

Keywords- Cryptocurrency, Logistic Regression, Python, R.

I. INTRODUCTION

Aim and Objectives

The aim and objectives for the price prediction of cryptocurrency is to study the use of the prediction of cryptocurrency. To investigate this some tools are required like Python and R. this data can be easily undergone in Excel but the predictions will be vague. The price prediction of cryptocurrency will be integrated and evaluated by frameworks using this tools. Machine Learning language like logistic regression to plot the graph. This will help to find out the perception of the cryptocurrency price prediction.

Collection of Dataset

I will be selecting dataset from Kaggle. The website URL is https://www.kaggle.com/tunguyenlam/20190620-crypto. This where i have collected the data set. Kaggle helps us to find the and publish datasets, discover and make models in a web based data science environment, work with other data scientists and machine learning engineers and arrive oppositions to solve data science trials.

Explanation of Dataset

The reason for dataset is to check how much the cryptocurrency is helping in some organization. As this system is new so we can get an idea of how much they are used, for what purpose they are used, are they helpful, the outcomes etc. I will discuss about how many records and features are there in the cryptocurrency. There are 70,303 records and 10 features. The features consists of symbol, openTime, open, close, closeTime, high, low, numTrades, volume and quoteVolume. This will help e to predict the use and values of cryptocurrency like how much numTrades and quoteVolume.

Business Case of the Project

Large companies are planning to use cryptocurrency as they get much orders from clients and need to pay the employees. Some clients prefer to order online hence they can clear their payments via online. Paying from credits and cash on delivery can be hectic hence this easy system.

Selection of Environment

In this project I will be using high level programming so I chose Python and R. Python is a high level programming language. R is also a high level programming language which is currently used in numerous project under any organization. Both the programming language are used to check the statistical computing and graphics.

Selection of the Technology

An algorithm is required for the dataset to work properly and create a graph for visualization. For this I will be using logistic regression which will portray the gradient or the curves of how it will increase or decrease. The reason I am using logistic regression because the analysis is appropriate to conduct when the dependent variable is target. It is used to define data and to describe the association between the dependent target variable and one independent variable known as predictor.