**Predictive Analytics of Crypto Market**

**Project Proposal**

Date: 10/27/2020

Connect with Power BI

Connect with Excel

Visualize in Power BI with live data

Clean the data in Excel and Data will refresh every 1 minute with new live data

Get live data from marketwatch.com

**Version – 2**

Get live data from marketwatch.com

Get live data from coincapmarket.com

Visualize in Web page

Connect with web page

Clean the data in Excel and Data will refresh every 1 minute with new live data

Connect with Excel

Predictive Analytics using ML

Visualize in Tableau and Power BI

1. **Data source(s)**
   1. We are considering data from two web sources which will be used to perform visualization and predictive analytics.
2. www.coincapmarket.com
3. www.marketwatch.com
4. **Data capturing**
   1. Data is extracted into an Excel sheet using the “extract web data” option on Excel. By using the option, will capture the entire data available on the website in an unstructured format.
5. **Curation process**
   1. Data is extracted in an unstructured format.
   2. To clean the data, take a crypto/stock price into a new sheet using a cell formula. The same process can be repeated to take 20 stocks/cryptocurrencies into a new sheet.
   3. To update the live website data in our excel sheet, we need to automatically refresh the excel sheet by changing refresh preferences to 1 minute.
   4. To save the old prices and new prices of each stock every time the excel sheet is refreshed, write a VB script procedure.
   5. By following all the above steps, we can clean the data and get all stock prices.
6. Data processing
7. Data analyzing
8. Predictions
9. Visualizing
10. For visualizing the data we used Tableau in this project.
11. Open the Tableau and import the data through Microsoft Excel file.
12. Drag your corresponding sheet in to the dashboard then you will see the data in the data source.
13. In our project we visualized the Bitcoin rates for every minute through line graph by keeping the time in the column and Bitcoin in the row.
14. Change the automatic to thee line and the n you can see the line graph.

References:

1. Data cleaning - <https://medium.com/@victorleungtw/getting-real-time-data-from-web-to-excel-467913abe61a>
2. Data Visualization tutorials - <https://www.youtube.com/watch?v=9TXdFxmYlAc&feature=emb_logo&ab_channel=StudentLife>

Homework

1. Create a github repo for the team
2. Create list of references
3. Divide your tasks based on architecture diagram
4. Document the every single step.