PROJECT REPORT FOR DATA VISUALIZATION

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Section: V2

Subject: Data Mining and Analysis

About my project

My project basically deals with how we can visualize the forecasting of various cryptocurrencies. We basically got a data base from Kaggle which has various cryptocurrencies along with the various parameters of their performance. These include their highs, low, etc plotted against various years. As cryptocurrency is a currently happening field with lots of future potential and for successfully dealing with this, we need to visualize each and every factor involved in the trading process.

Luckily, this process has been made easier nowadays thanks to the concept of data visualization. It involves tools like powerbi which easily lets us take datasets and manipulate them. We can display various aspects of the dataset and make forecasting as we want. We can add graphs, carts, charts and many more things to our use for the purpose of this project.

How my project is implemented

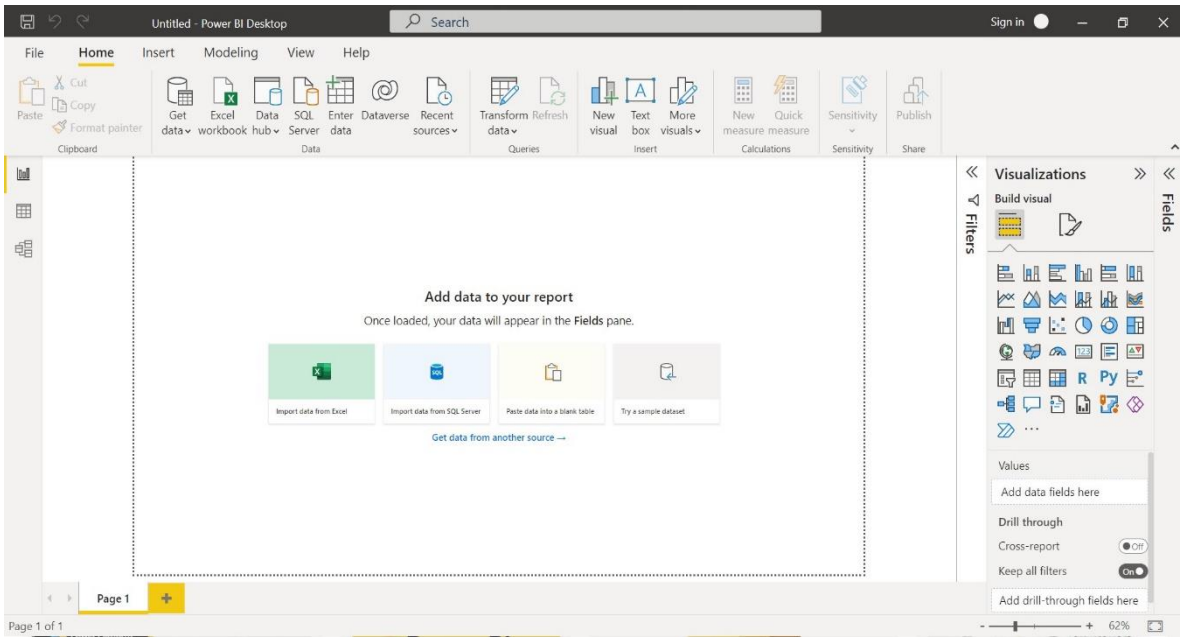
To implement my project the first step that I followed is that I downloaded the required dataset from Kaggle. After that we open the csv file and analyse that and we select transform data to edit the data to present it in a more palatable form. This can be done in a tool called power query editor. After that we load it into the dashboard. Then in the report section of the dashboard we start our designing and visualization process. We first select a suitable background for our dashboard and put it in 50% transparency mode so that the visualization tools

and panes are visible. Then we enter two slicers. One represents the various cryptocurrencies that are available and the other represents the year as per their performance. We can go to the model pane and connect them so they are dynamically connected. We can then design and style the panes and give the required colours. I designed them in a black background with blue buttons and shadows. We then select the configuration of buttons as to whether they are single select or multiple select. After that we select a line graph option and plot the x and y axis to show the marketplace to year. Then we can select the forecast option from the format pane. After that we can add the heading of the panes. Then we add five carts and design them according to our themes. We then designate each of the carts as to show sum of market cap, average, low, high and volume. We then design them as green for high and red for low. We can put blue for average and orange for volume.

Then we create another page and create a button to navigate from one page to another. We can do this by assigning the functionality of the button from the pane.

In the second page we insert the same carts along with market cap and volume carts. Then we add a line graph and this time configure with high and low on one side and create another graph to compare open and close to show the price on the opening and closing day. We put the appropriate colour and conclude our project.

Pictures


Untitled - Power BI Desktop
Search
Sign in
File
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Modeling
View
Help
Add data to your report
Once loaded, your data will appear in the Fields pane.
Import data from Excel
Import data from SQL Server
Paste data into a blank table
Try a sample dataset
Get data from another source →
Visualizations
Build visual
Filters
Fields
Values
Add data fields here
Drill through
Cross-report
Keep all filters
Add drill-through fields here
Page 1
Page 1 of 1
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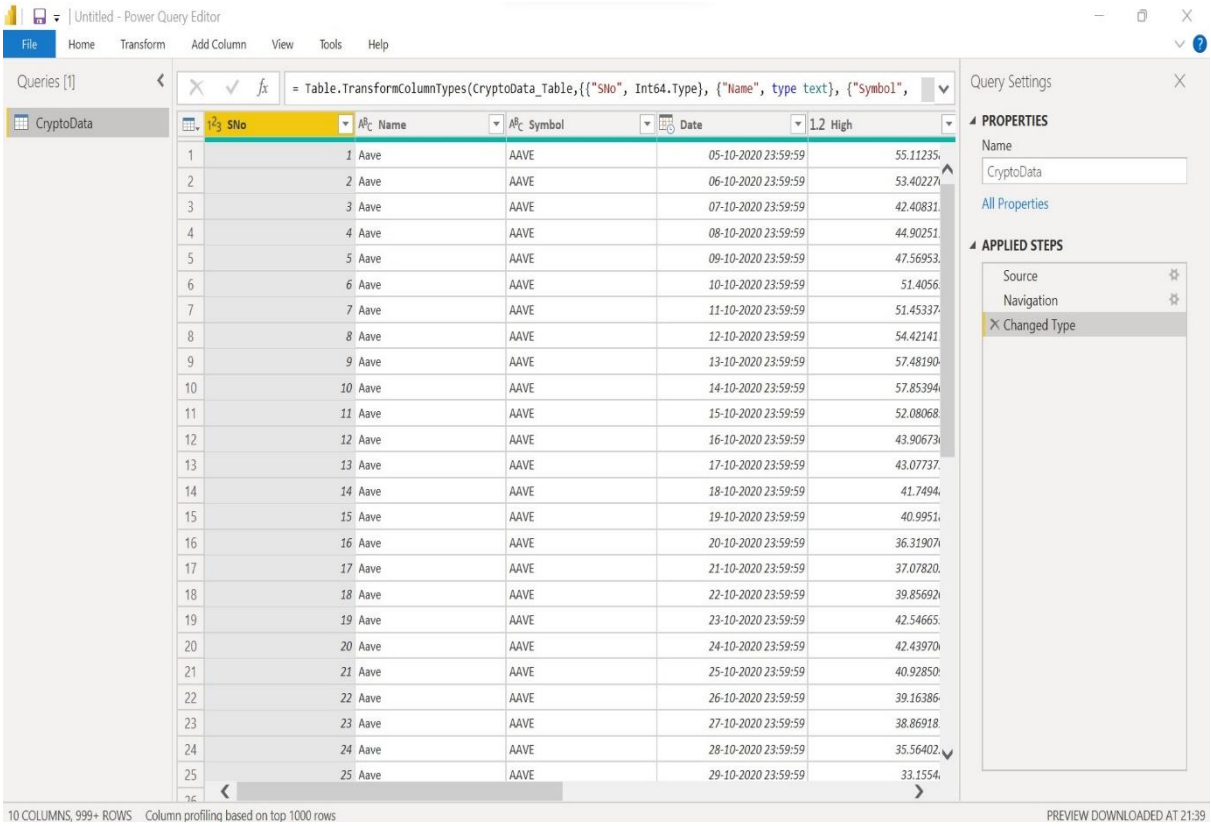
Untitled - Power Query Editor
File
Home
Transform
Add Column
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Help
Queries [1]
CryptoData
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SNo
Name
Symbol
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1 Aave AAVE 05-10-2020 23:59:59 55.11235
2 Aave AAVE 06-10-2020 23:59:59 53.40227
3 Aave AAVE 07-10-2020 23:59:59 42.40831
4 Aave AAVE 08-10-2020 23:59:59 44.90251
5 Aave AAVE 09-10-2020 23:59:59 47.56953
6 Aave AAVE 10-10-2020 23:59:59 51.4056
7 Aave AAVE 11-10-2020 23:59:59 51.45337
8 Aave AAVE 12-10-2020 23:59:59 54.42141
9 Aave AAVE 13-10-2020 23:59:59 57.48190
10 Aave AAVE 14-10-2020 23:59:59 57.85394
11 Aave AAVE 15-10-2020 23:59:59 52.08068
12 Aave AAVE 16-10-2020 23:59:59 43.90673
13 Aave AAVE 17-10-2020 23:59:59 43.07737
14 Aave AAVE 18-10-2020 23:59:59 41.7494
15 Aave AAVE 19-10-2020 23:59:59 40.9951
16 Aave AAVE 20-10-2020 23:59:59 36.31907
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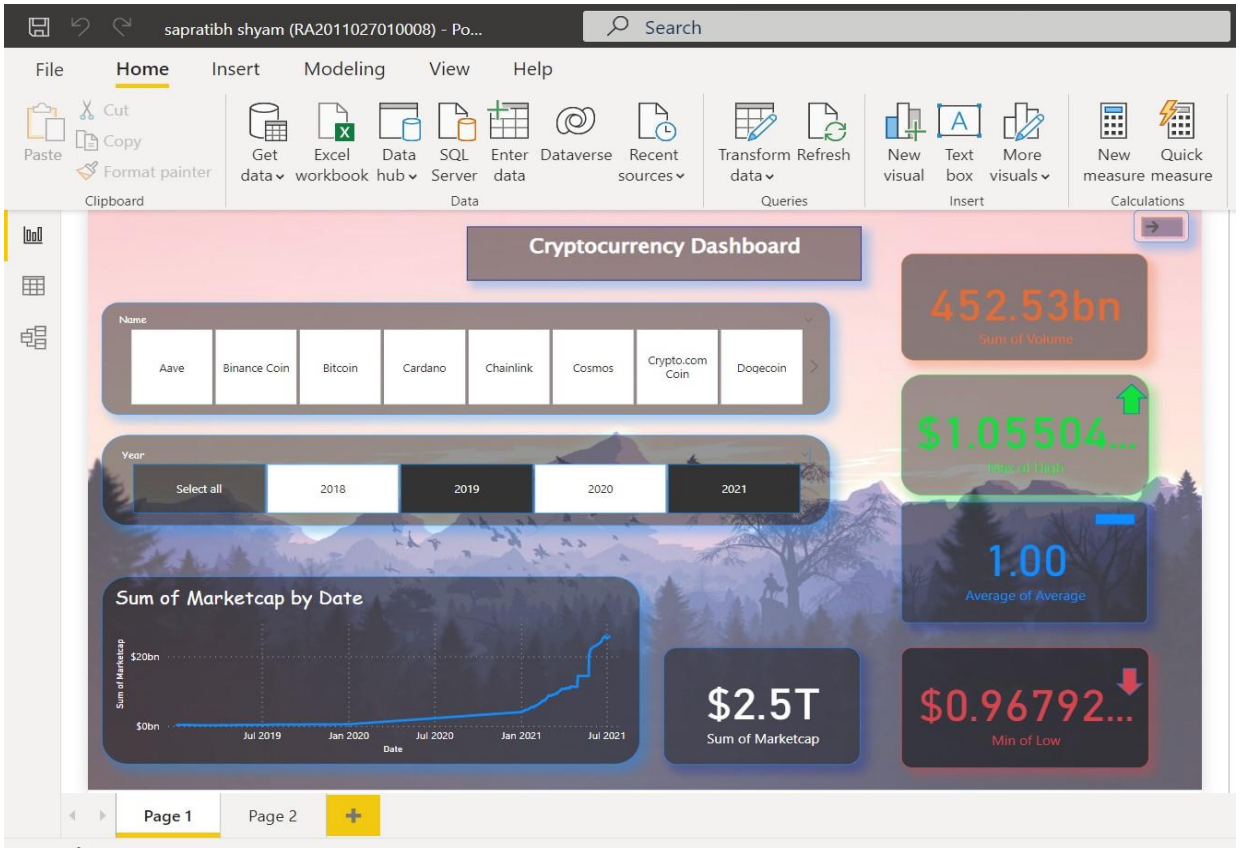
24 Aave AAVE 28-10-2020 23:59:59 35.56402
25 Aave AAVE 29-10-2020 23:59:59 33.1554
Query Settings
PROPERTIES
Name
CryptoData
All Properties
APPLIED STEPS
Source
Navigation
Changed Type
10 COLUMNS, 999+ ROWS
Column profiling based on top 1000 rows
PREVIEW DOWNLOADED AT 21:39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Cryptocurrency Dashboard
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Bitcoin
Cardano
Chainlink
Cosmos
Crypto.com Coin
Dogecoin
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2018
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2020
2021
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Sum of Volume
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$20bn
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Jul 2020
Jan 2021
Jul 2021
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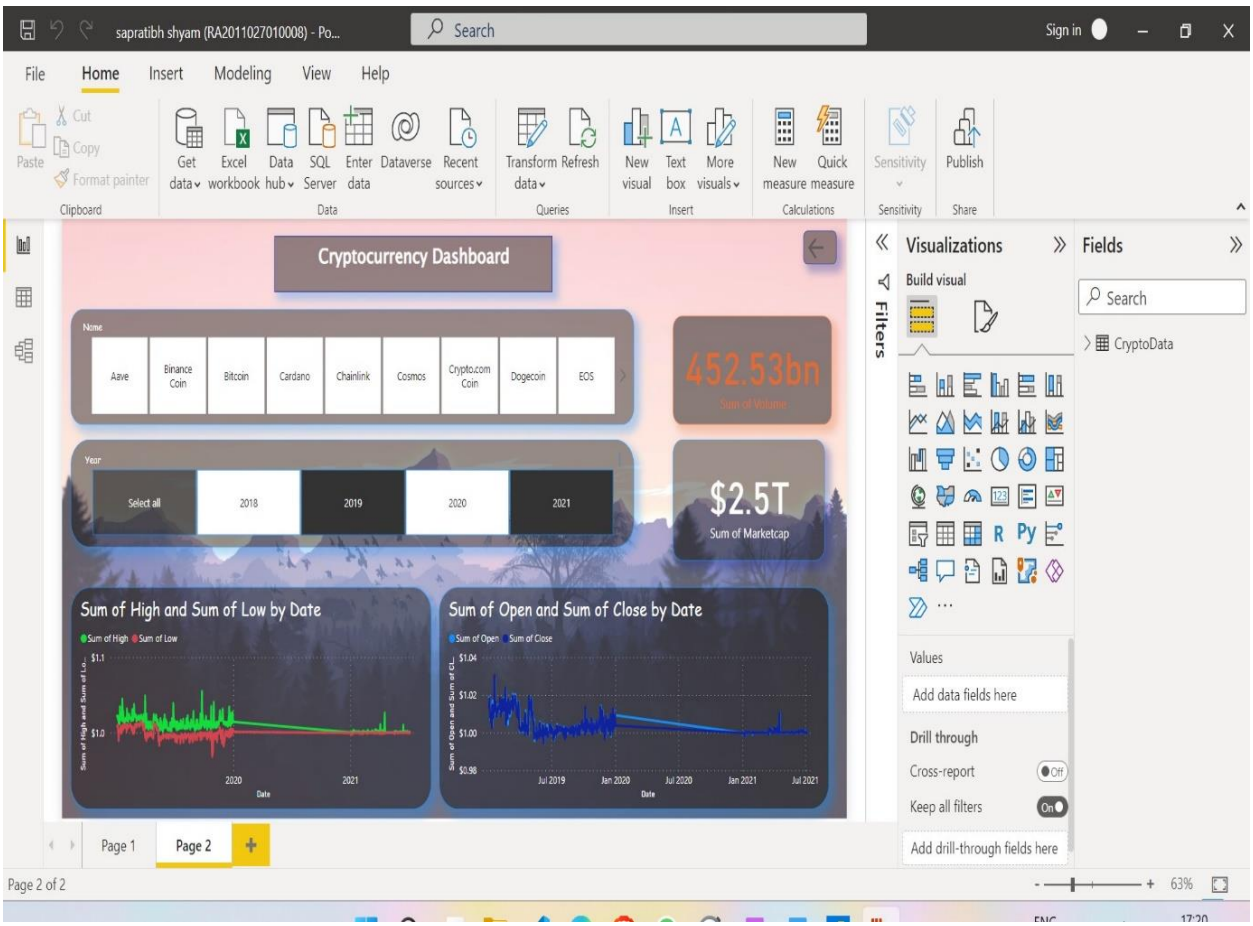
Min of Low
Page 1
Page 2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Cardano
Chainlink
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Visualizations
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Values
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Cross-report
Keep all filters
Add drill-through fields here
Filters
Page 1
Page 2
Page 2 of 2
63%