

Configuration Manual

MSc Research Project
Cloud Computing

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Project Submission Sheet
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Student Name:	Siddharth Prashant
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Programme:	Cloud Computing
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Module:	MSc Research Project
Supervisor:	Dr.Majid Latifi
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Attach a completed copy of this sheet to each project (including multiple copies).	<input type="checkbox"/>
Attach a Moodle submission receipt of the online project submission , to each project (including multiple copies).	<input type="checkbox"/>
You must ensure that you retain a HARD COPY of the project , both for your own reference and in case a project is lost or mislaid. It is not sufficient to keep a copy on computer.	<input type="checkbox"/>

Assignments that are submitted to the Programme Coordinator office must be placed into the assignment box located outside the office.

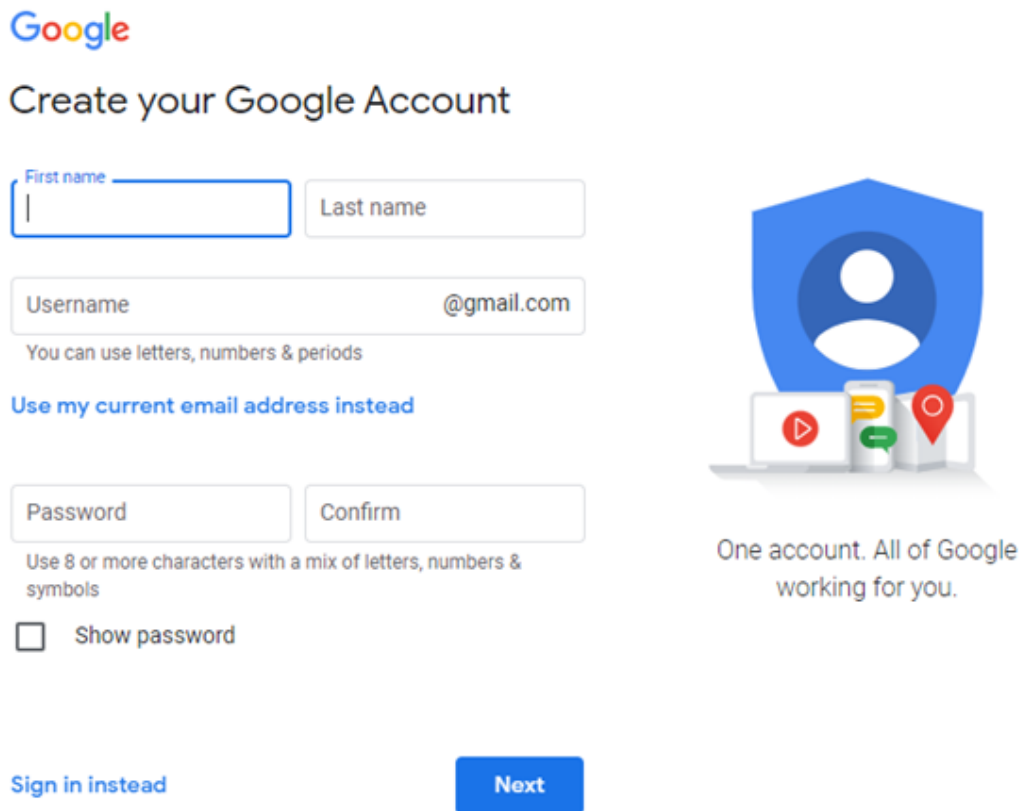
Office Use Only	
Signature:	
Date:	
Penalty Applied (if applicable):	

Configuration Manual

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1 Section 1

Step 1- Create a google account with a username and a password.



The image shows the Google account creation interface. At the top left is the Google logo. Below it is the heading "Create your Google Account". The form consists of several input fields: "First name" and "Last name" (two separate boxes), "Username" (with a placeholder "@gmail.com") and "Password" (with a "Confirm" box next to it). Below the "Password" field is a checkbox labeled "Show password". There is a link "Use my current email address instead" in blue. At the bottom left is a link "Sign in instead" and at the bottom right is a blue "Next" button. To the right of the form is a graphic of a blue shield with a white person icon, and below it, icons for YouTube, Gmail, and Maps. Below the graphic is the text "One account. All of Google working for you."

Figure 1: Create a Google account

Step 2- After creating the google account , open Google Colab Cloud Environment from your browser as shown below

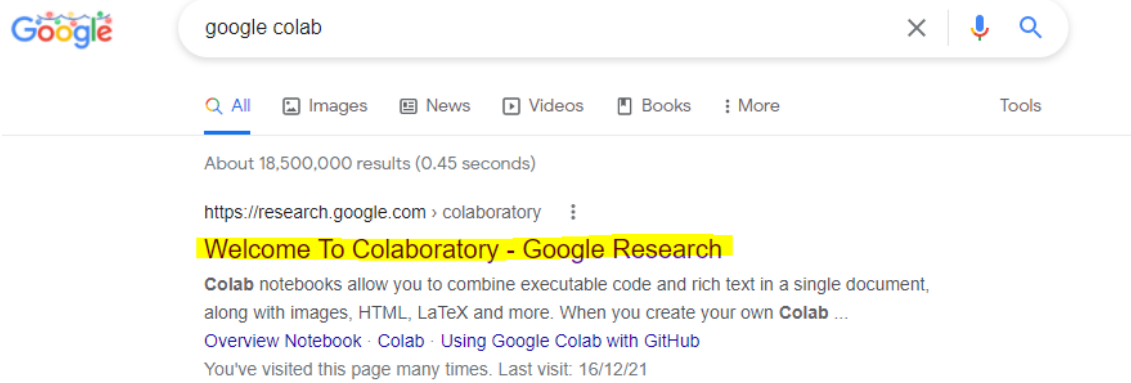


Figure 2: Google Colab on browser

Step 3-The page will popup a window on screen as shown below. Choose the upload option.

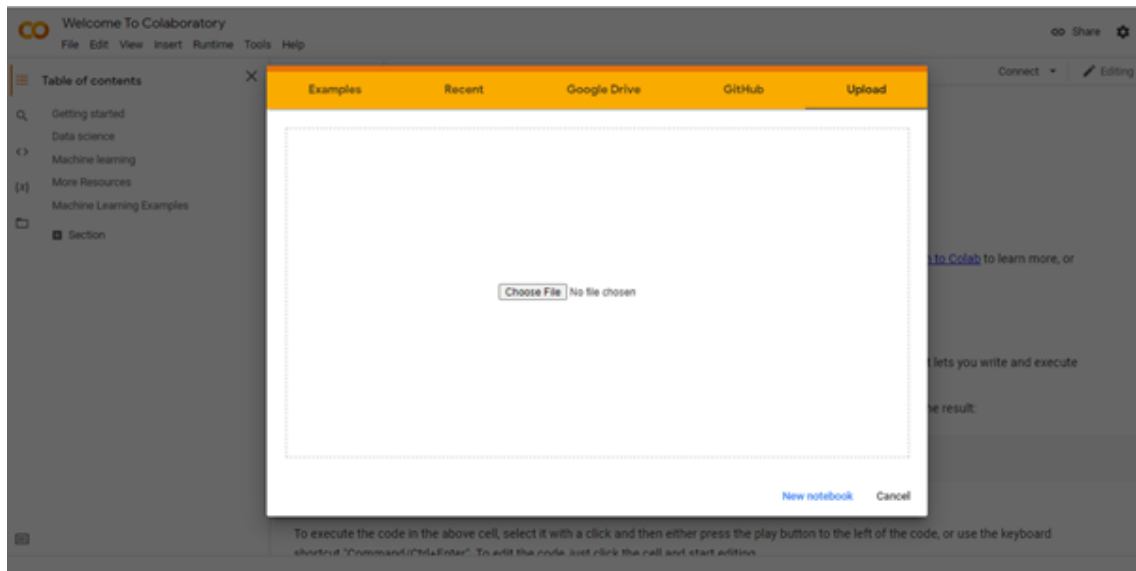


Figure 3: Upload python file

Step 4—Choose the 1'st .ipynb file named Bitcoin_analysis_and_prediction(1) The page will appear as shown below.

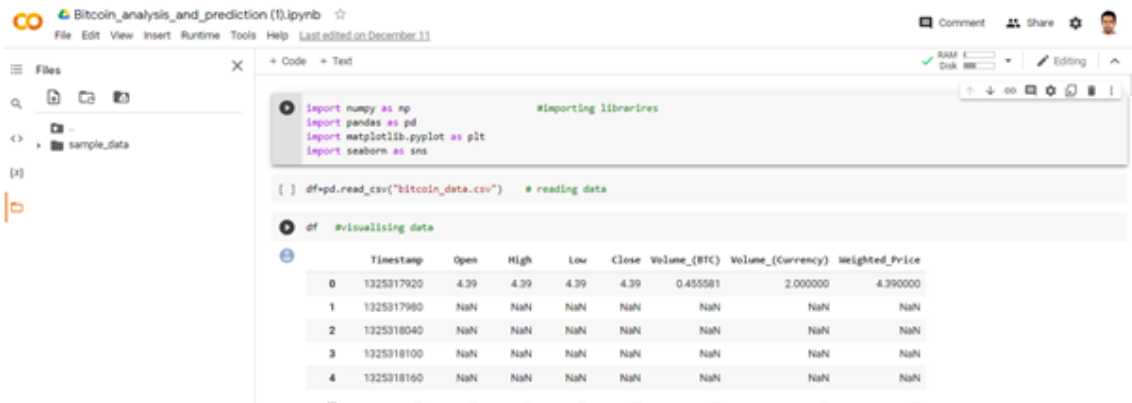


Figure 4: Window after uploading the python code

Step 5—Choose the option named “Runtime” and then choose Change Runtime Type and select GPU for Hardware Selector and Save it as shown in the below figures.

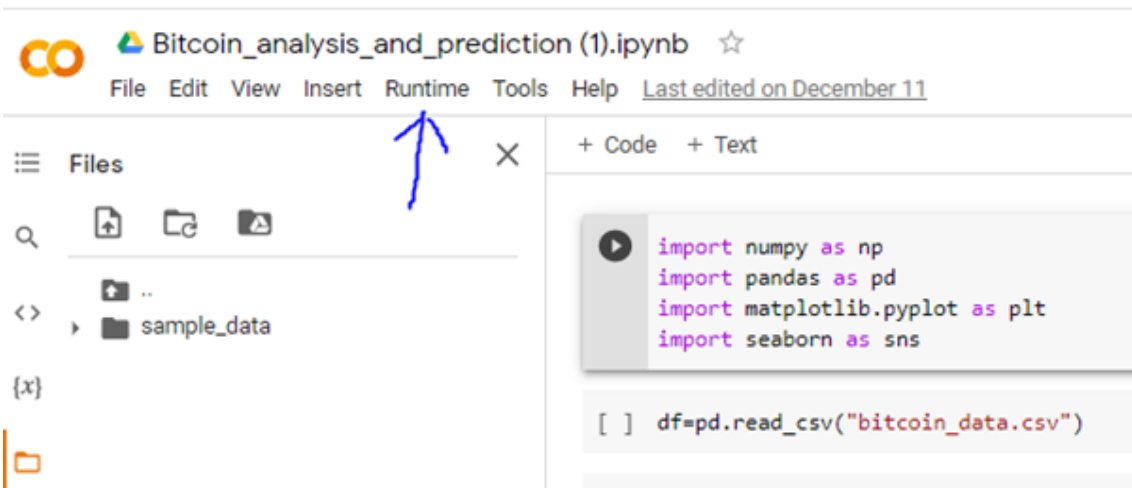


Figure 5: Choose Runtime

Figure below Shows Notebook Setting where we can set GPU.

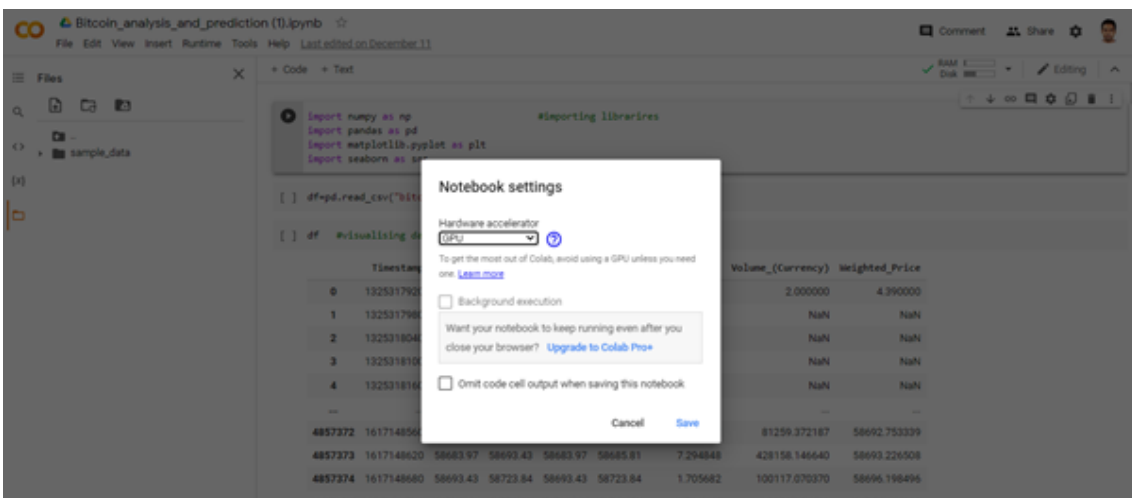


Figure 6: Setting GPU

Step 6:Goto files and Upload the .csv file named Bitcoin Historical Data as shown in the figure below.

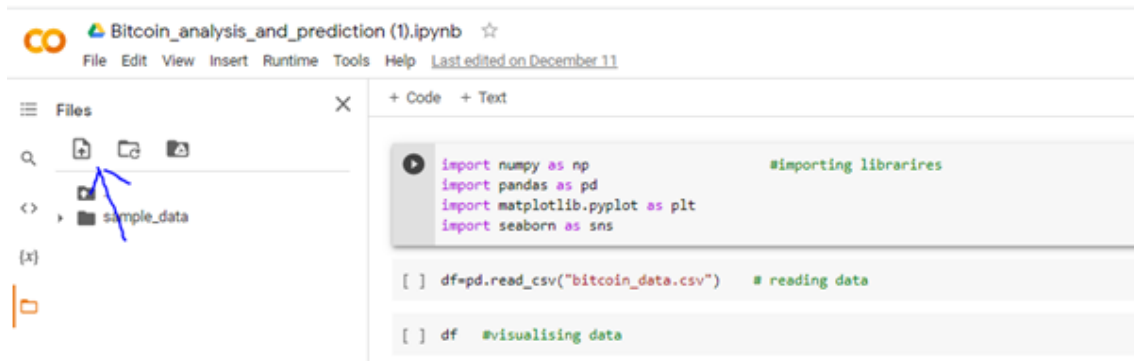


Figure 7: Upload .csv file

As soon as the upload will complete the left tray will show the file named Bitcoin Historical Data below the sample_data file as shown in the figure below. Ignore the sample_data file as it was used only for testing purposes.

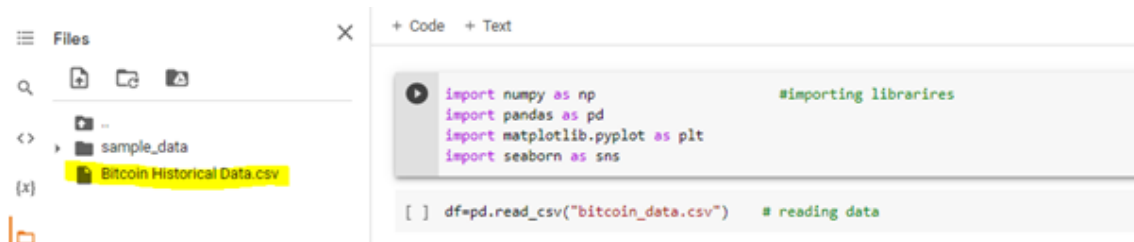


Figure 8: Window after successful upload

Step 7-Go to Runtime and Choose the option Run all as shown in the figure below.

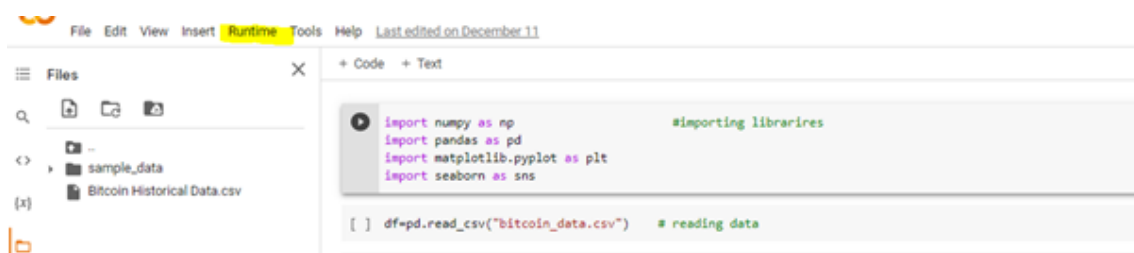


Figure 9: Choose Runtime

Step 7- The desired output can be seen by scrolling down the code.Below are some of the important output.

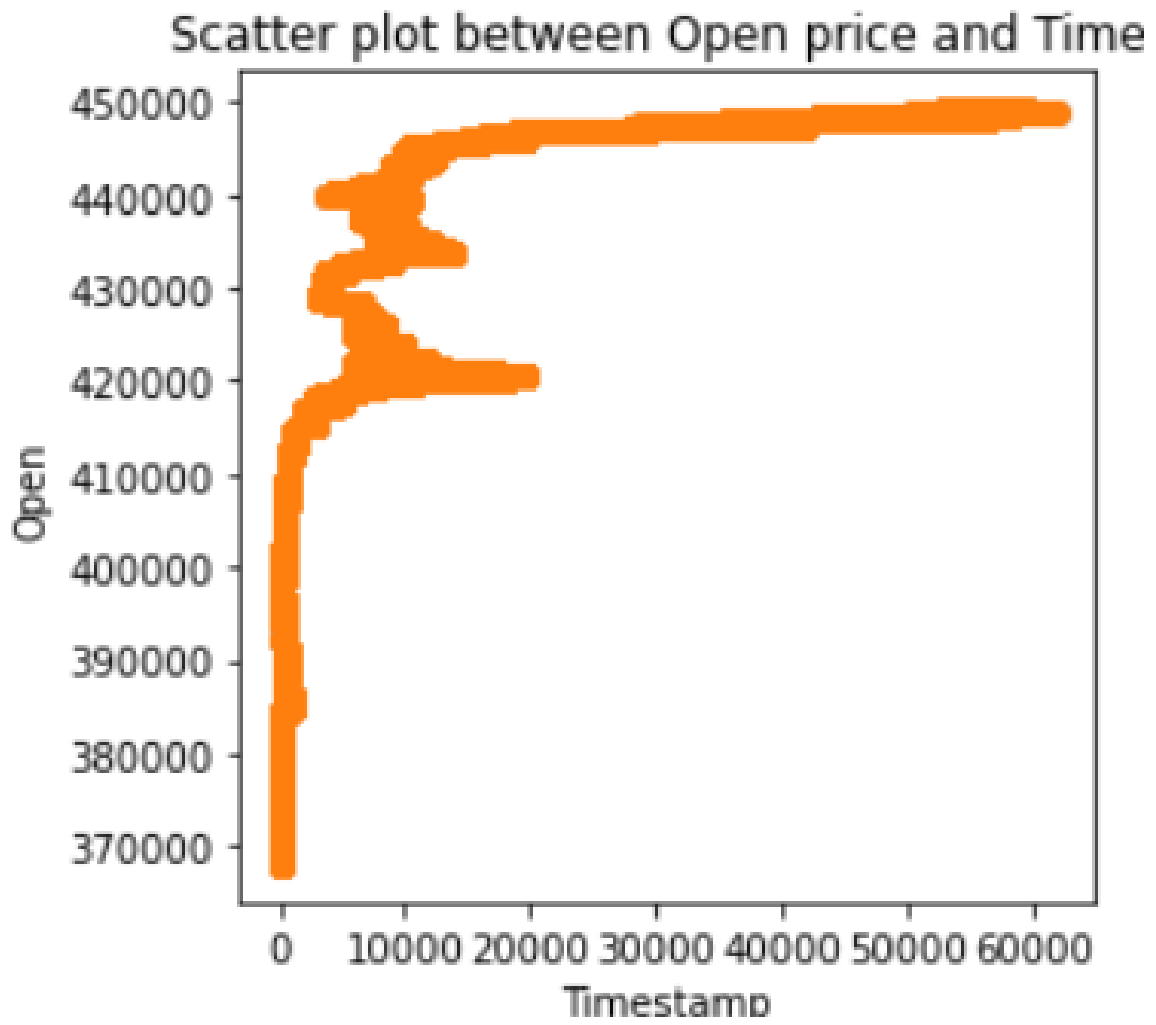


Figure 10: Choose Runtime

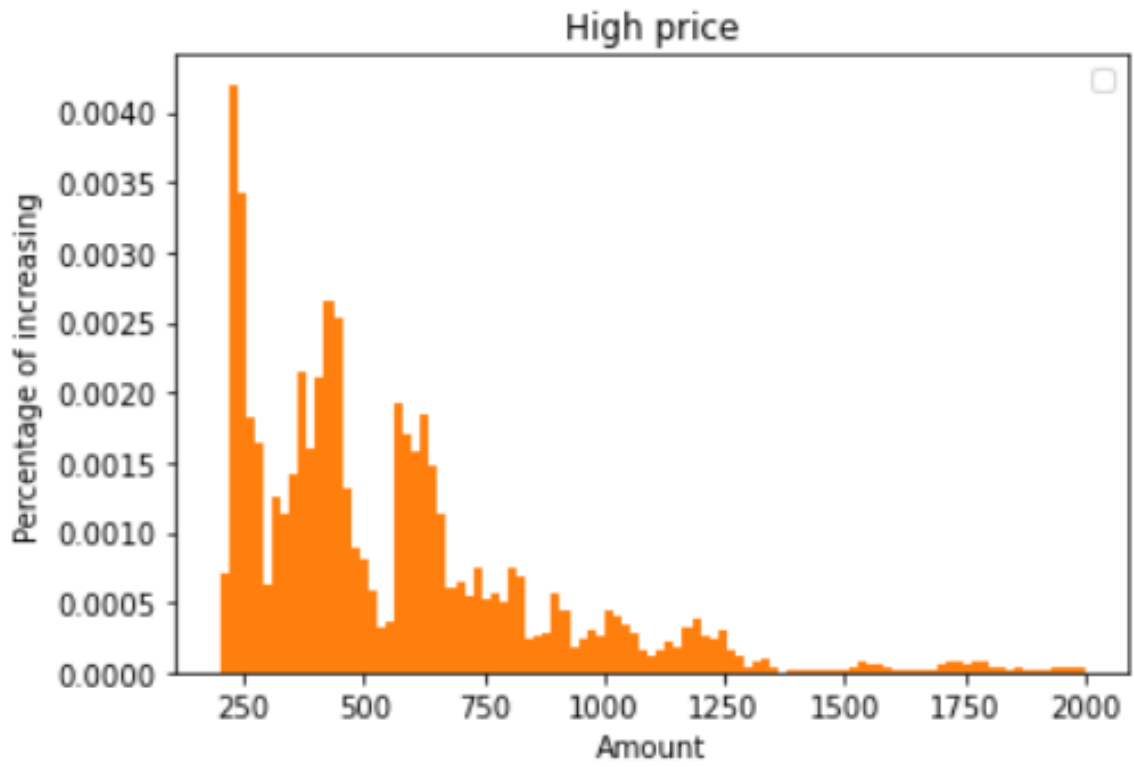


Figure 11: Choose Runtime

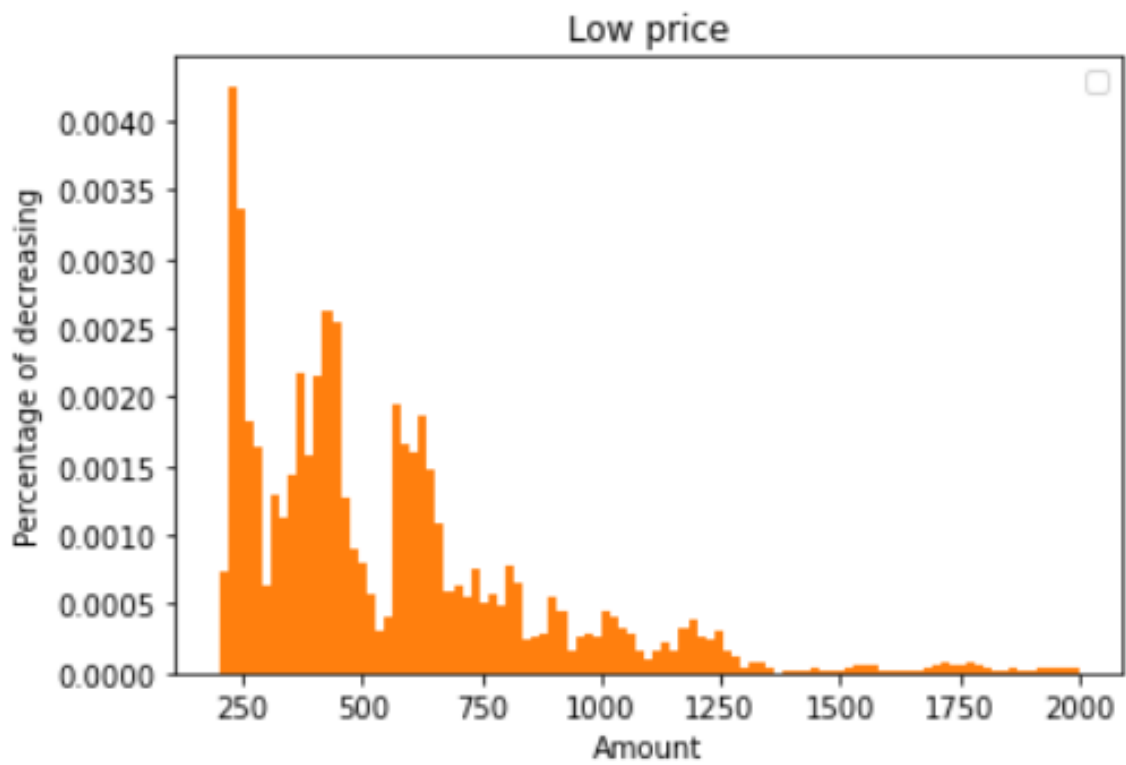


Figure 12: Choose Runtime

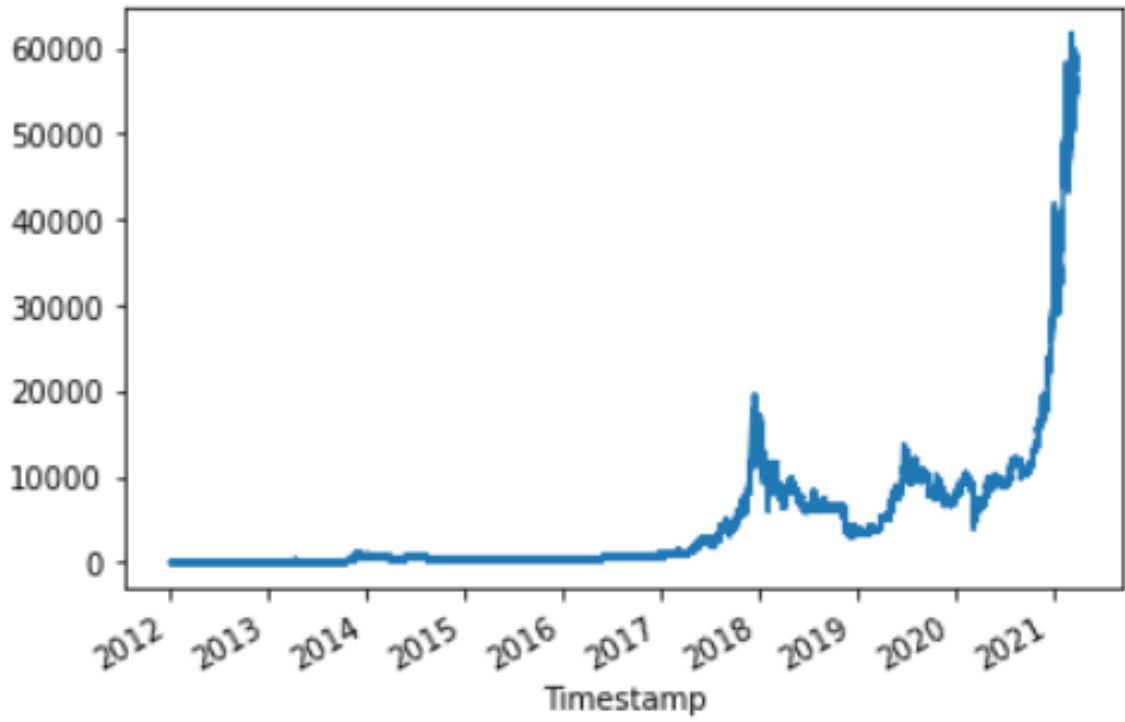


Figure 13: Choose Runtime

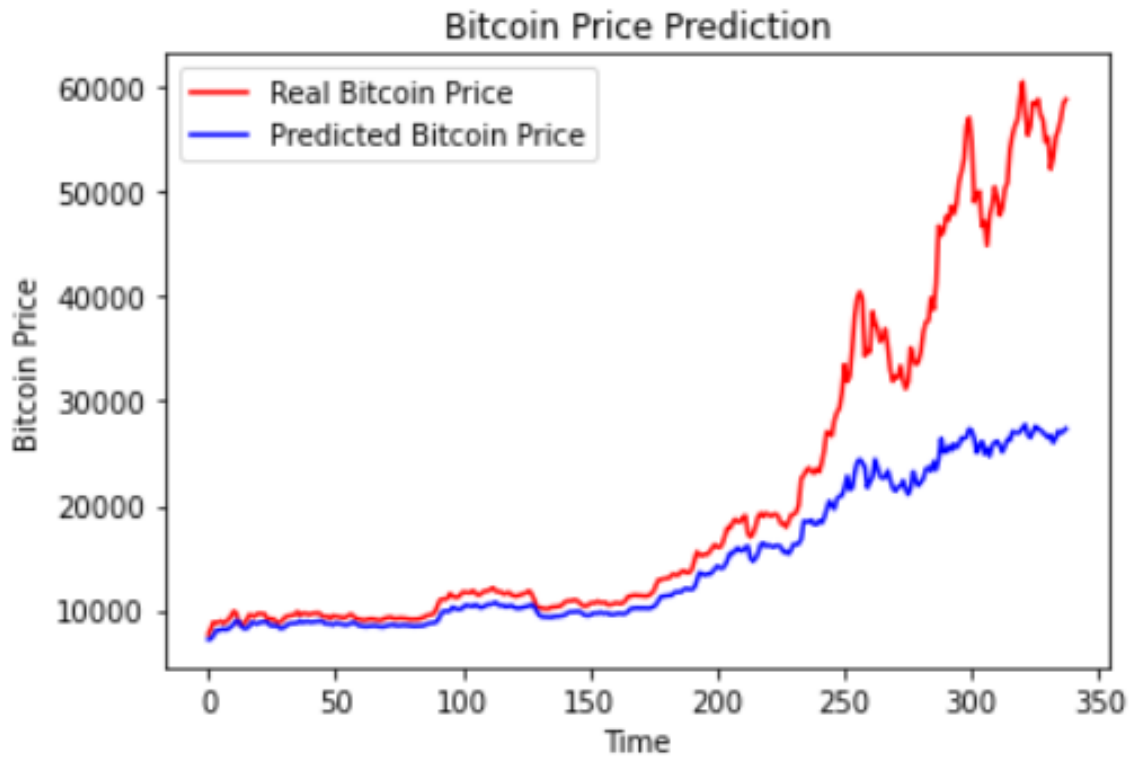


Figure 14: Choose Runtime

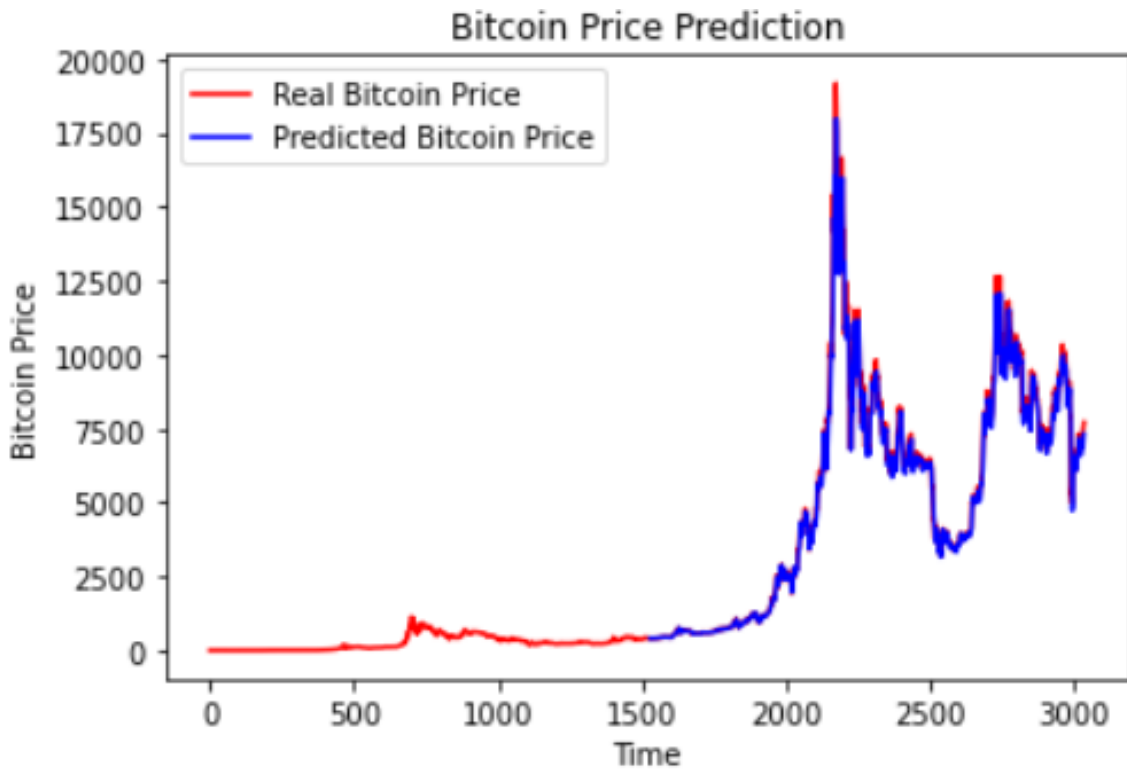


Figure 15: Choose Runtime

2 Section 2

For the Twitter Analysis please follow the steps mentioned below

Step 1-Go to File and choose New Notebook as shown in the figure

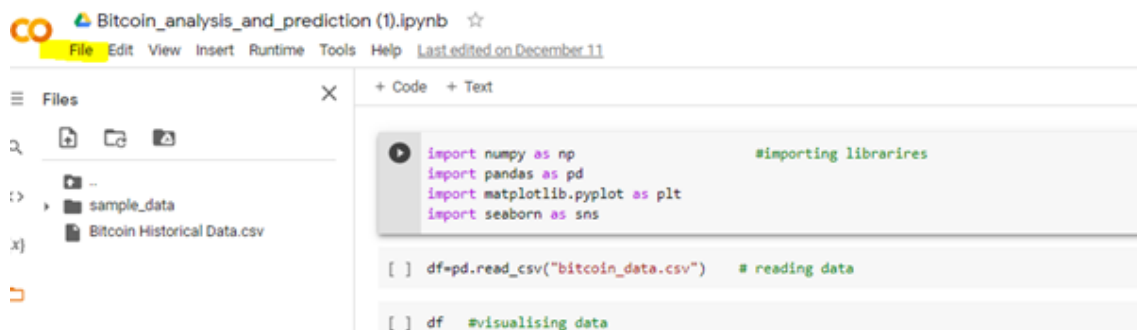


Figure 16: Goto file

Step 2-A new window will open. Go to File and choose Upload Notebook and upload the file Twitter_sentiment_analysis_and_bitcoin_prediction(1).ipynb as shown in the 2 figures.

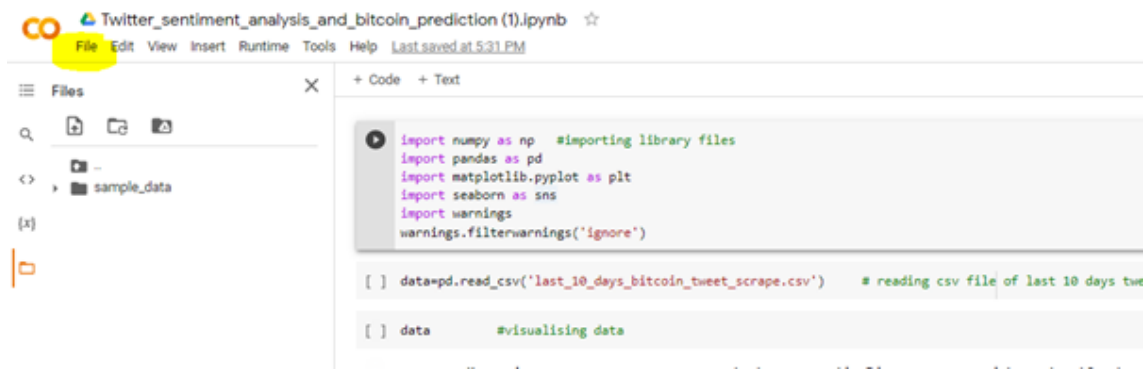


Figure 17: Choose Upload Notebook inside the File

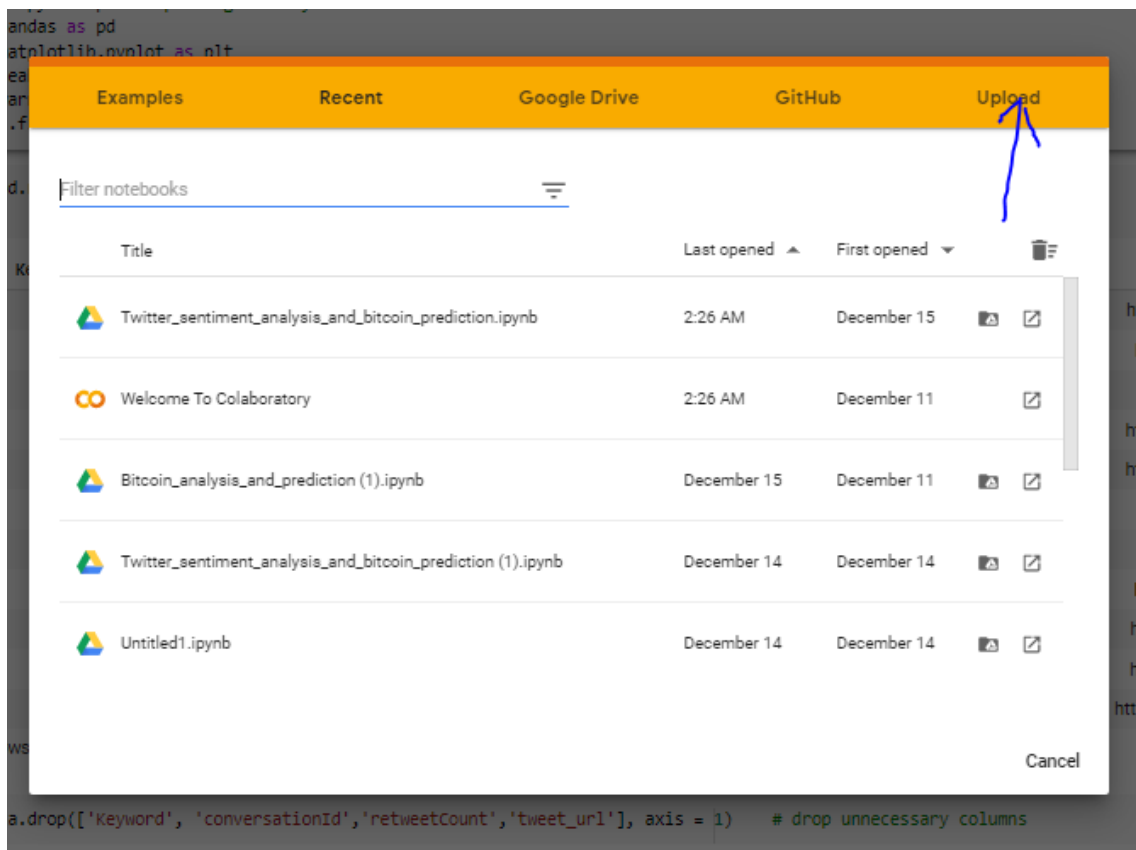


Figure 18: Upload the python code

Step 3-Choose the option named “Runtime” and then choose Change Runtime Type and select GPU for Hardware Selector and Save it as shown in the below figures.

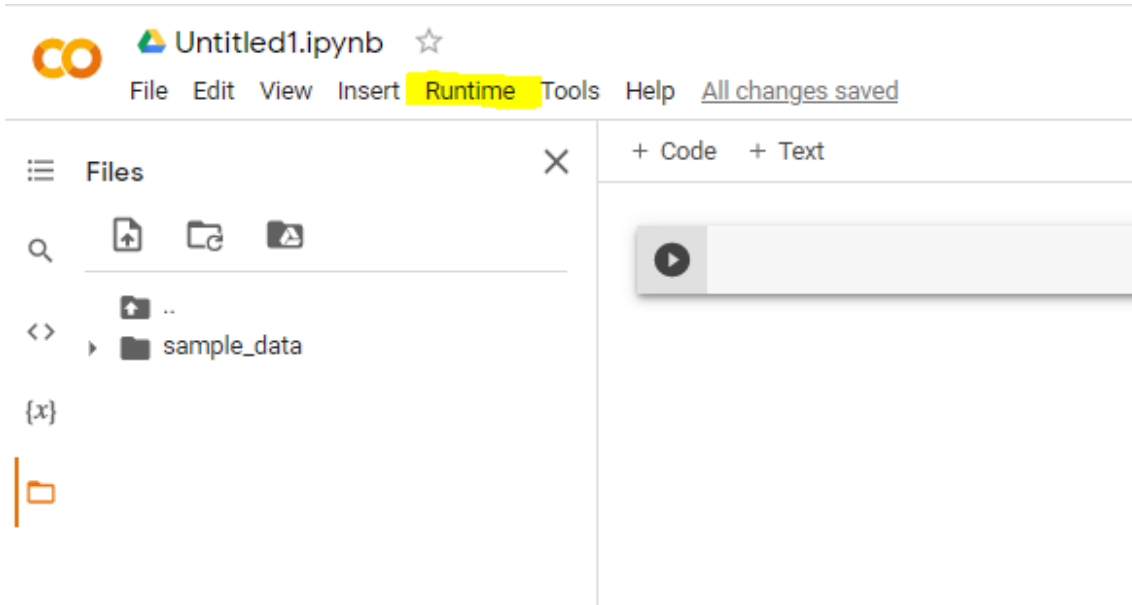


Figure 19: Choose Runtime

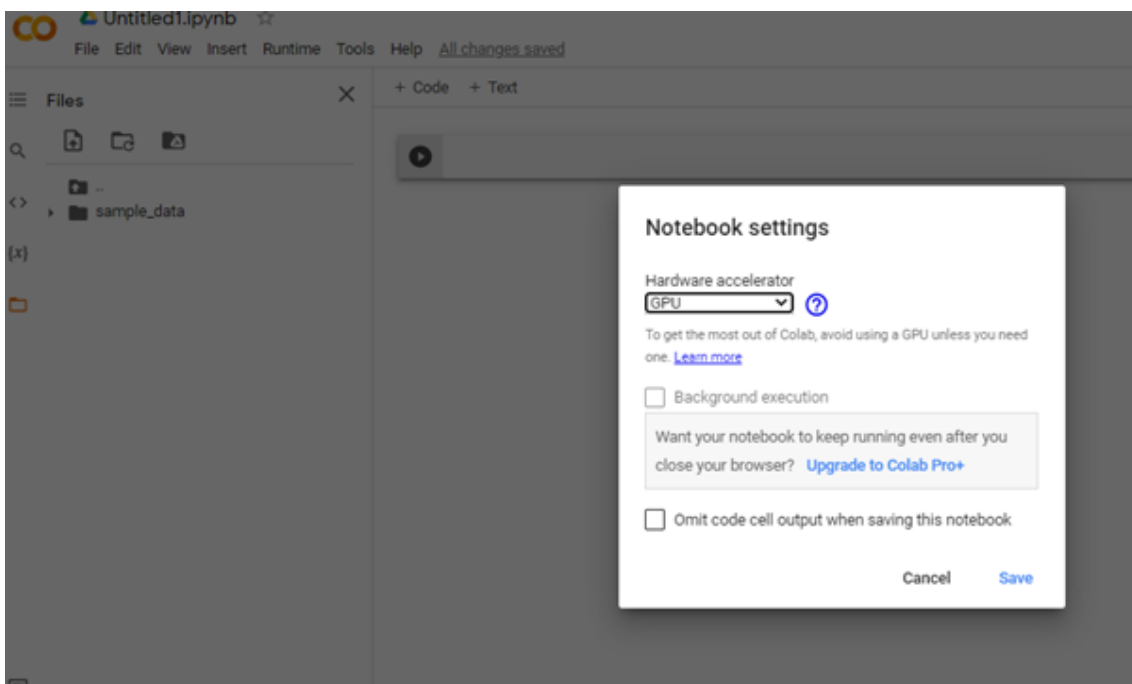


Figure 20: Choose GPU

Step 4-Upload the file named Bitcoin Historical Data.csv and last_10_days_bitcoin_tweet_scrape.csv at the shown button.

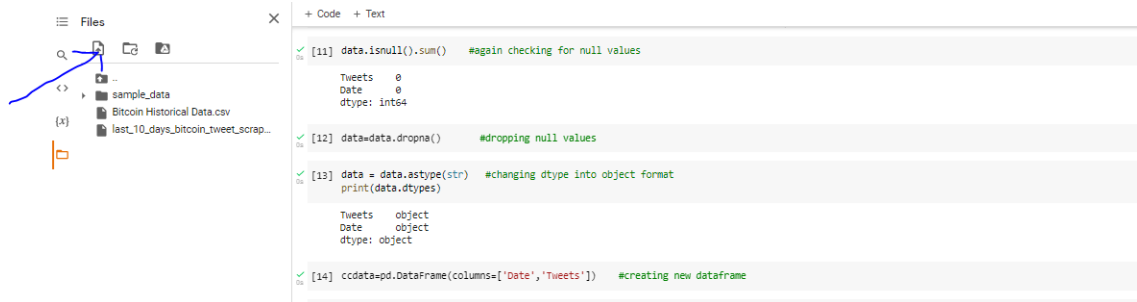


Figure 21: Upload File

Step 5-After the file has been upload the the left panel will show the file below the folder Sample.Data as shown in the below figure.Please ignore the folder Sample.Data as it was meant for testing purposes.

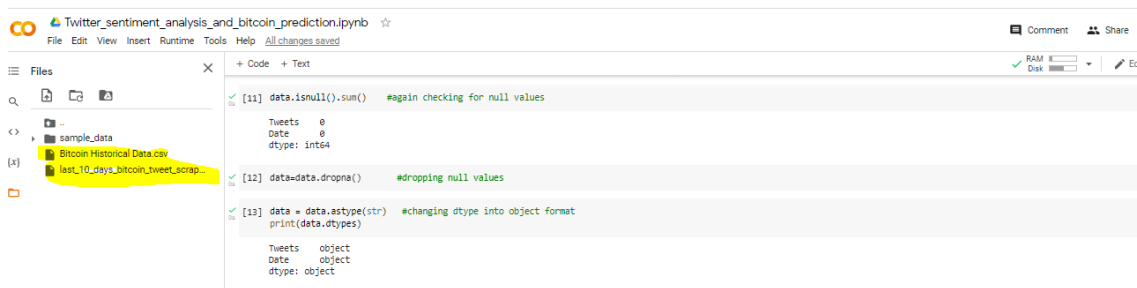


Figure 22: Files uploaded

Step 6-Goto Runtime and Choose Run all to execute the code as shown in the figure below.

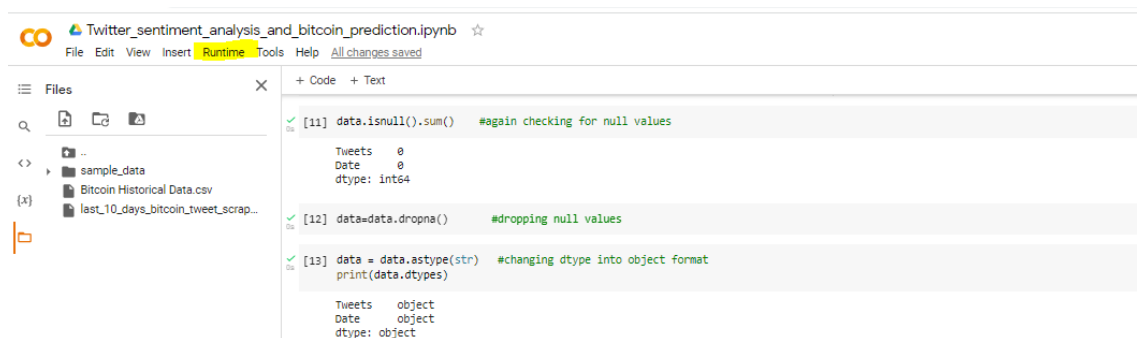
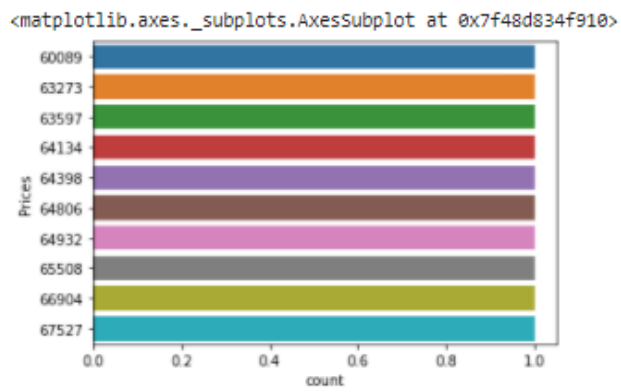


Figure 23: Install Python

Step 7-Output can be seen by scrolling down the code.Figures below are the desired output.

```
✓ [35] sns.countplot(y="Prices",data=df_.iloc[0:20]) #visualization of different variables
```



```
✓ [36] sns.countplot(y="Negative",data=df_.iloc[0:20])
```

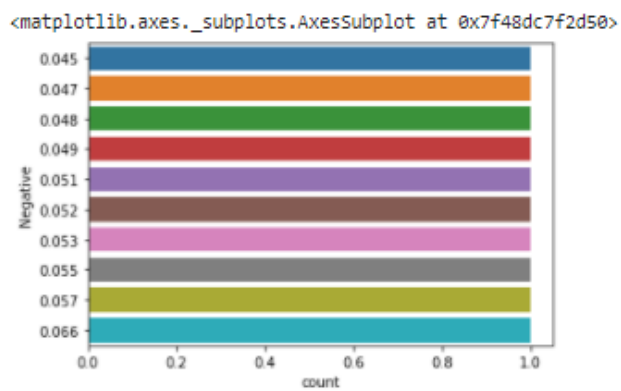
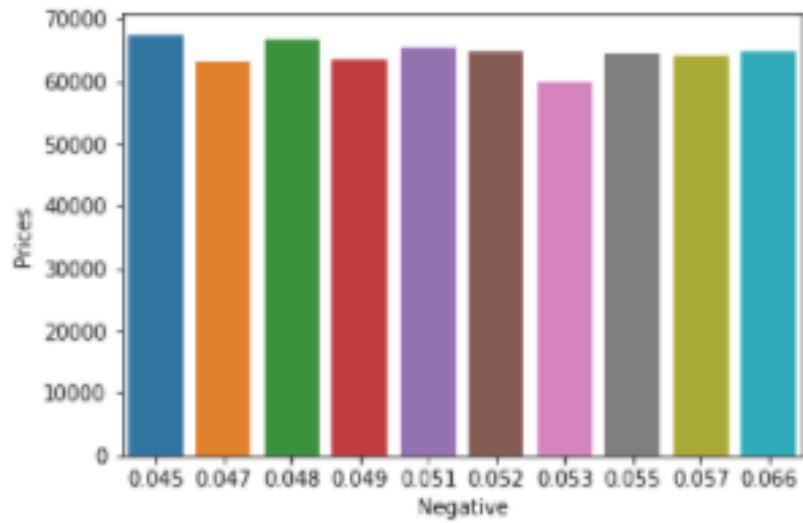


Figure 24: Output 1

```
sns.barplot(y="Prices",x='Negative',data=df_.iloc[0:20])
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f48daadf1d0>
```



```
sns.barplot(y="Prices",x='Positive',data=df_.iloc[0:20])
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f48dac03950>
```

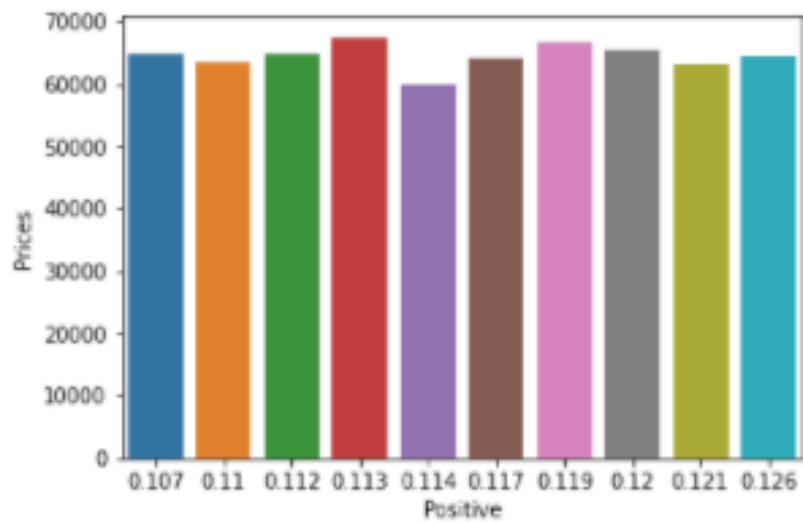


Figure 25: Output 2

```
[40] sns.lineplot(data=df_, x="Date", y="Prices")
      plt.xticks(rotation=45)

(array([738101., 738102., 738103., 738104., 738105., 738106., 738107.,
        738108., 738109., 738110.]),
 <a list of 10 Text major ticklabel objects>)
```

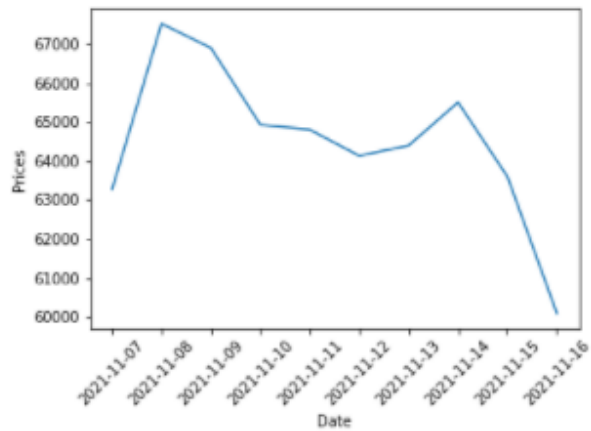


Figure 26: Output 3

```
[85] sns.catplot(
      data=df, kind="bar",
      x="Algo", y="MAE")
```

<seaborn.axisgrid.FacetGrid at 0x7f48e4239e10>

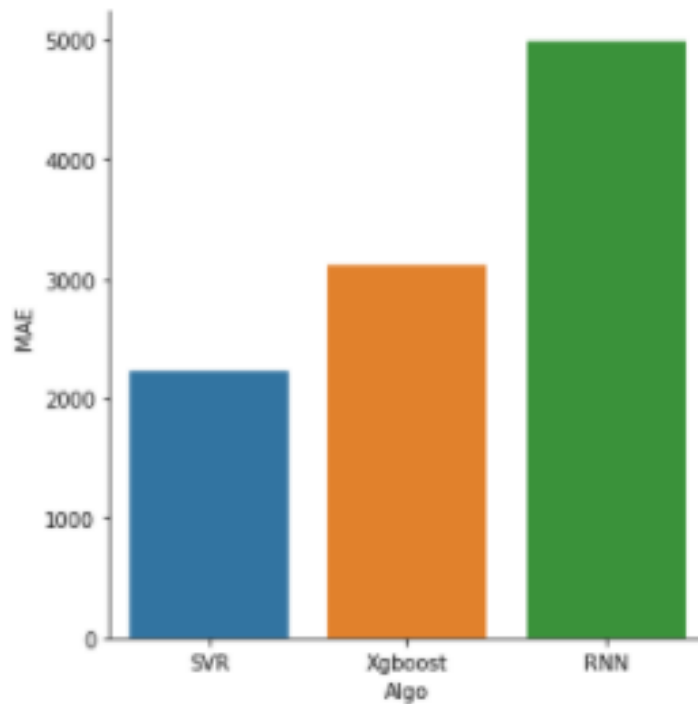


Figure 27: Output 4