Activity 6.b

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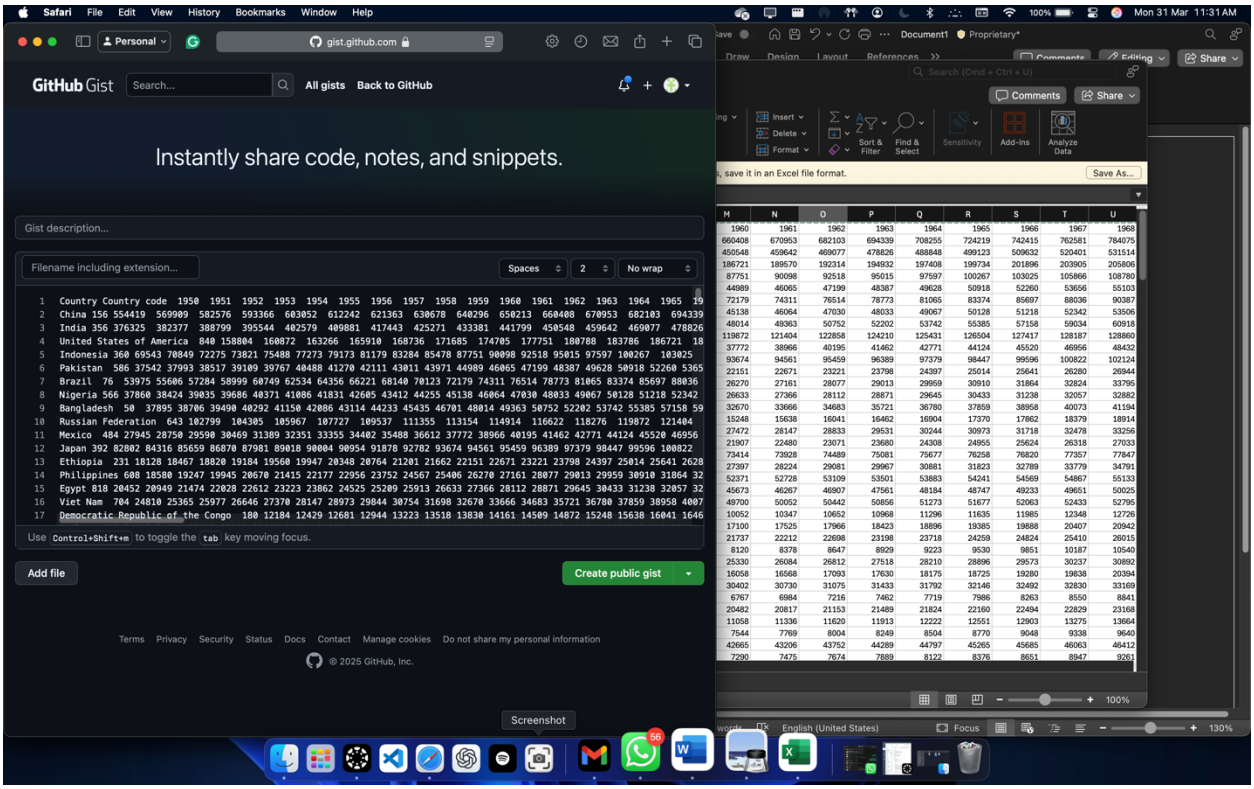
Task 1 : Plotting a bar chart

Step 1 : uploading and creating a public gist file with the given dataset file.

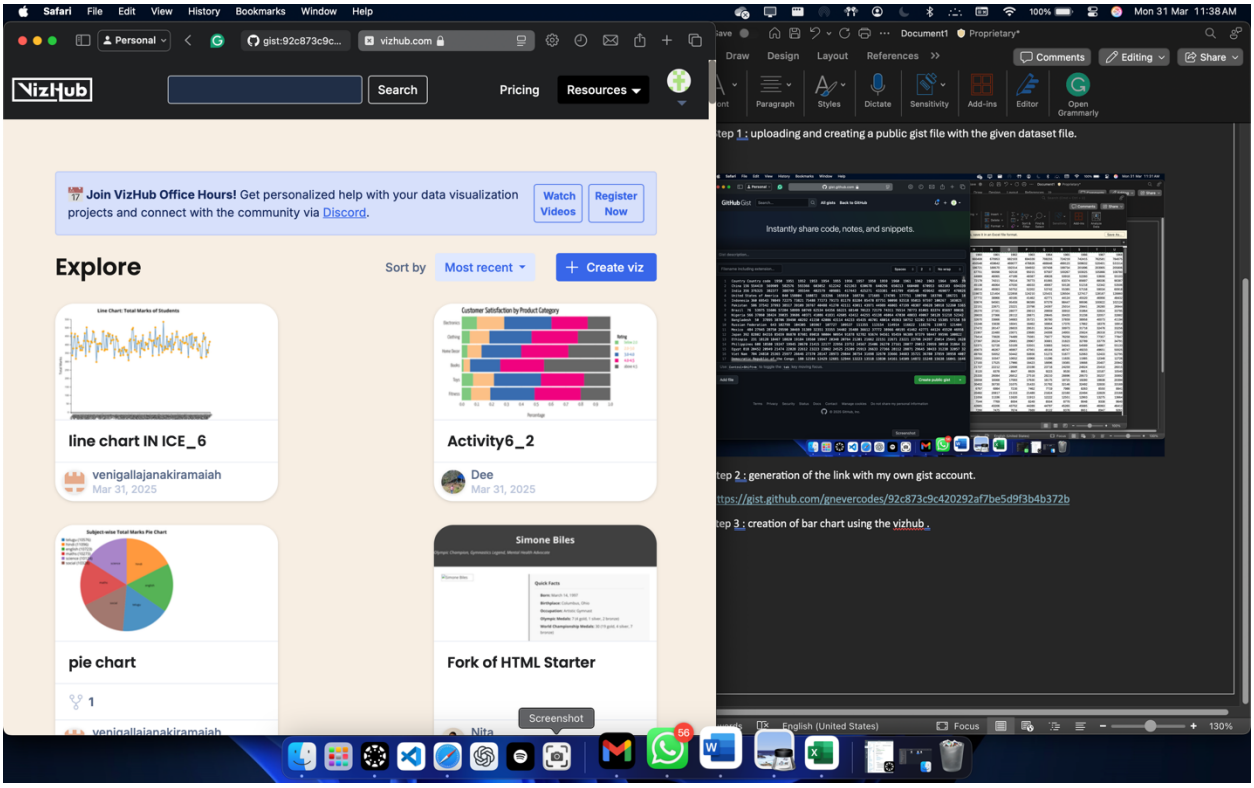


Step 2 : generation of the link with my own gist account.

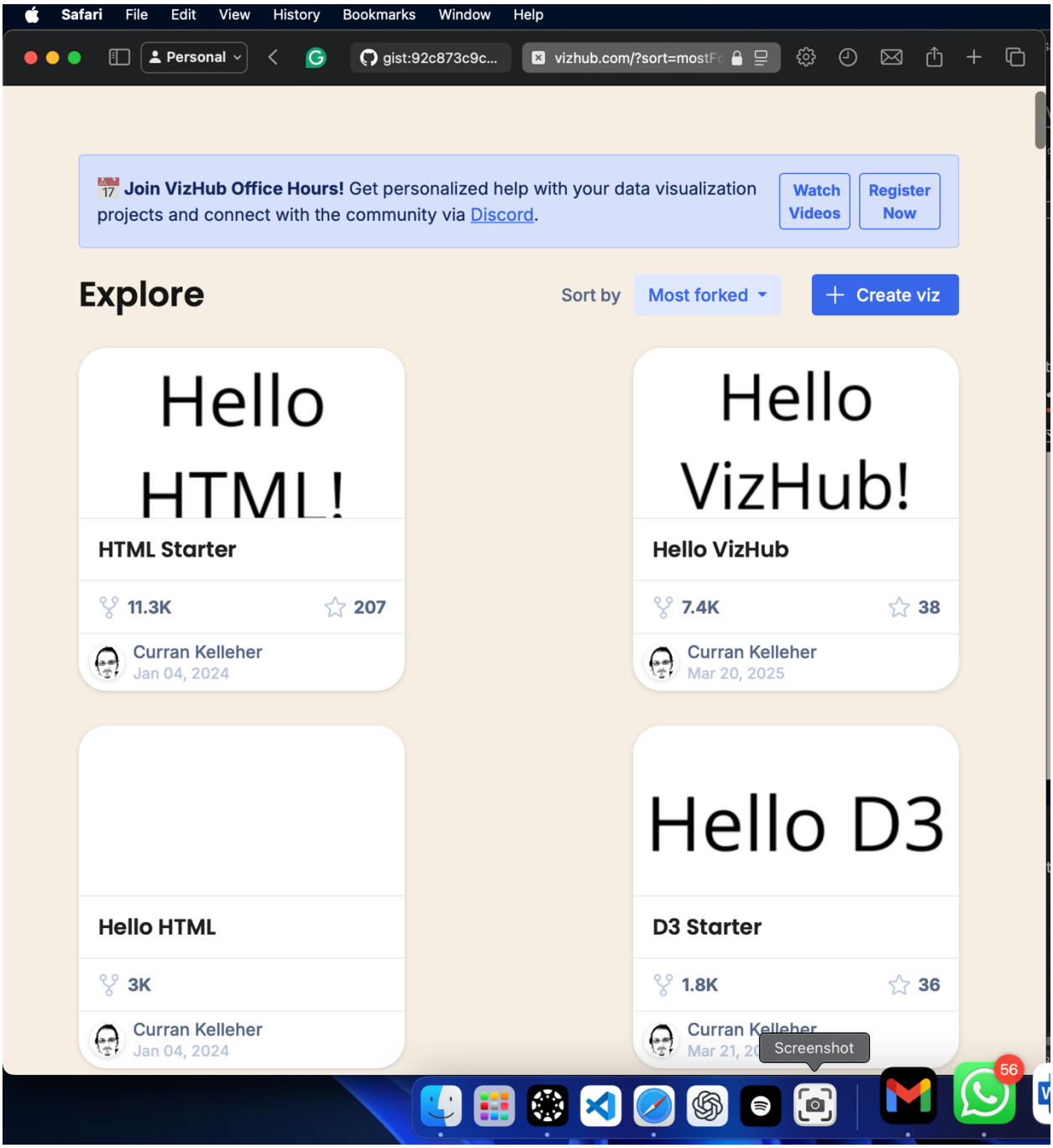
https://gist.github.com/gnevercodes/92c873c9c420292af7be5d9f3b4b372b

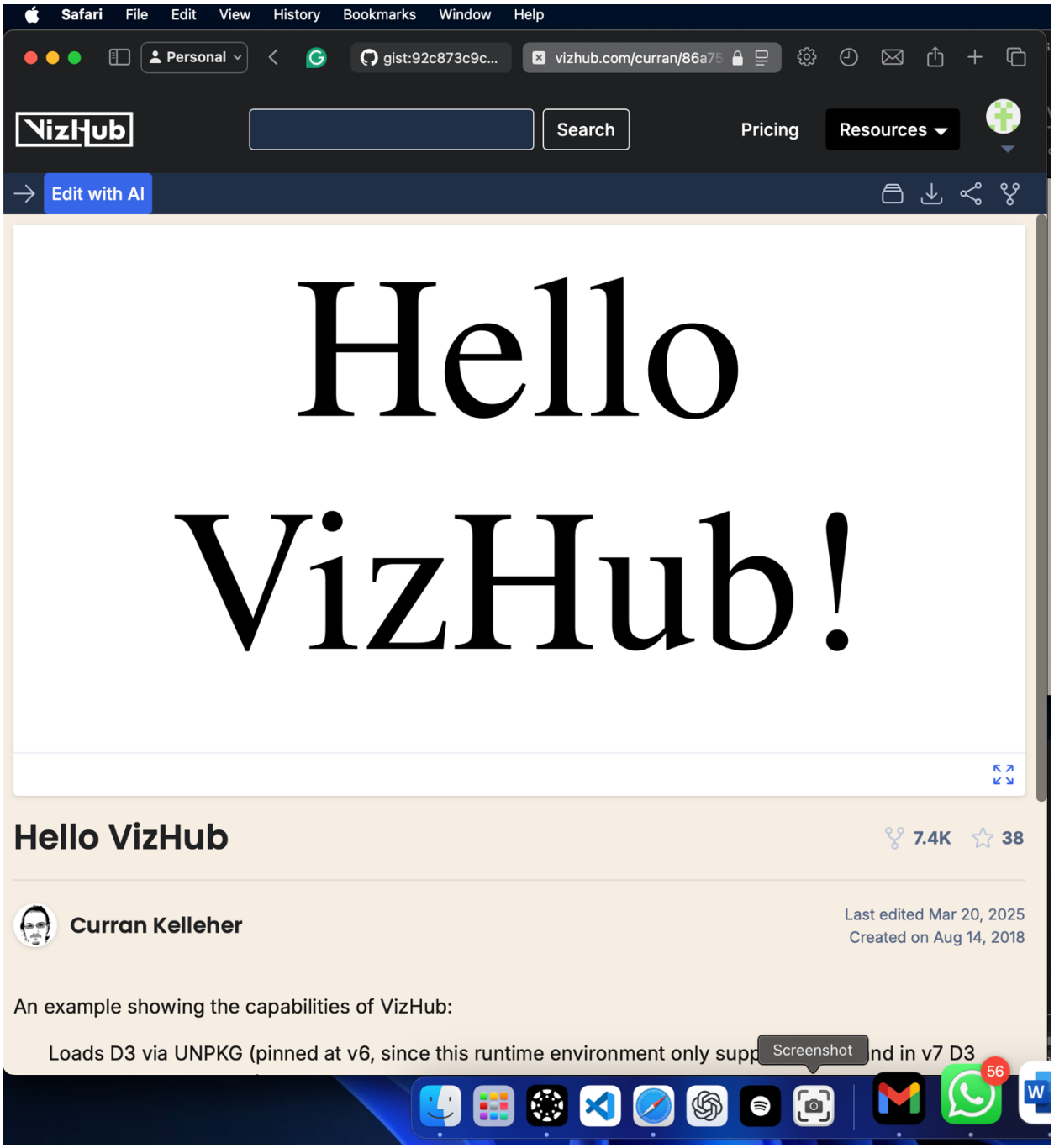
step 3 : creation of bar chart using the vizhub .

step 4 : login using my own github account.

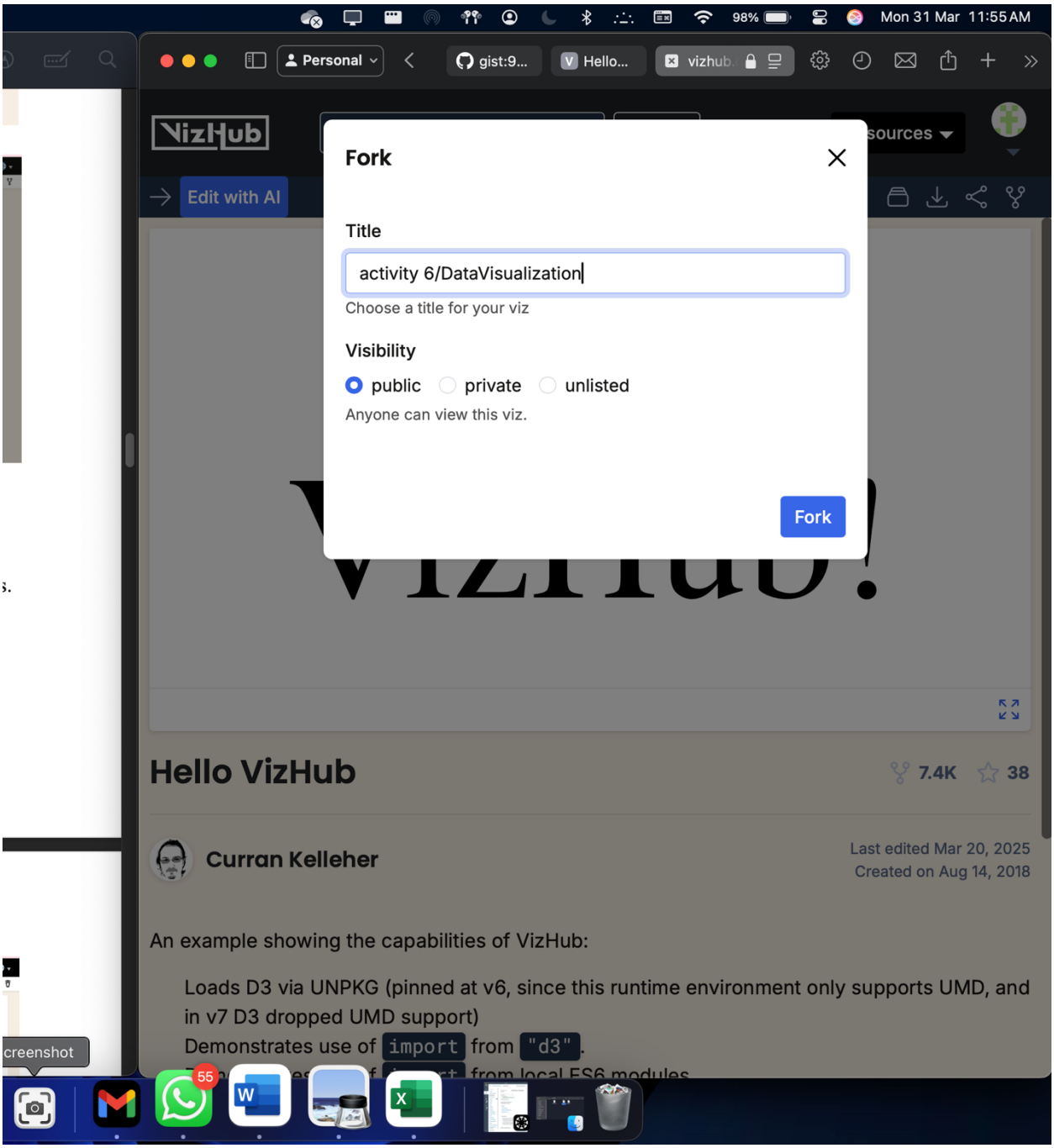


Step 5 : searching the most forked ones.



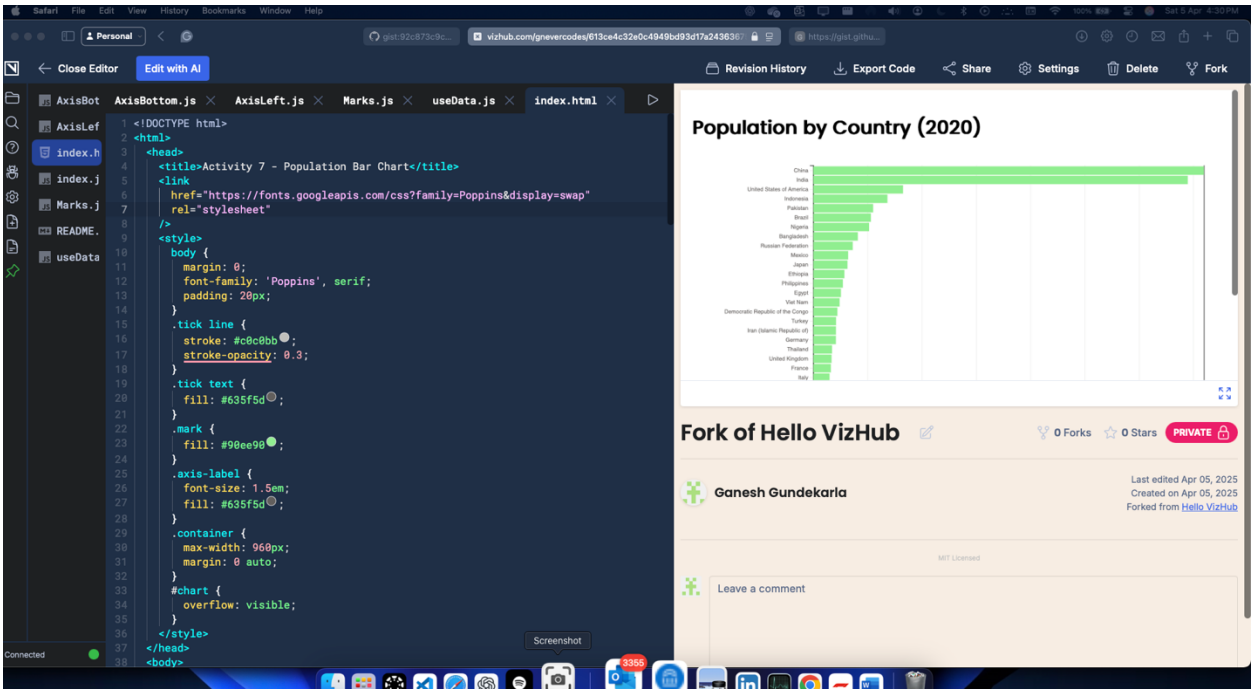


Step 6 : selecting the most forked ones.



Question 1 :

Creation of a bar chart using dataset given



Created it using the forking of hello vizhub one.

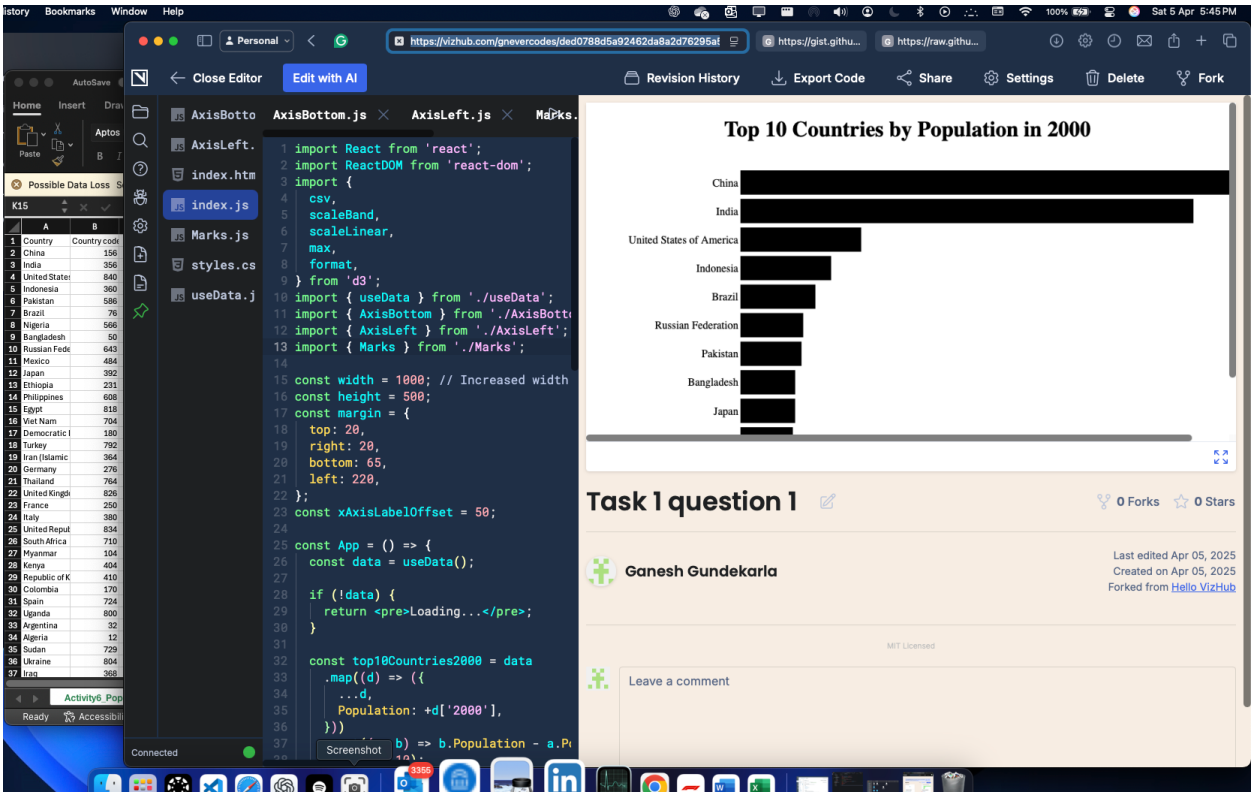
Vizhub link for Task 1 : question 1 for 20 countries.

https://vizhub.com/gnevercodes/613ce4c32e0c4949bd93d17a24363675?edit=files&file=index.html&tabs=AxisBottom.js%7EAxisLeft.js%7EMarks.js%7EuseData.js%7Eindex.html

question : for creating 10 countries

this is the bar chart I had done

https://vizhub.com/gnevercodes/ded0788d5a92462da8a2d76295a51c31?edit=files&file=index.js&tabs=AxisBottom.js%7EAxisLeft.js%7EMarks.js%7EuseData.js%7Eindex.js



Understanding :

I here learnt several important things

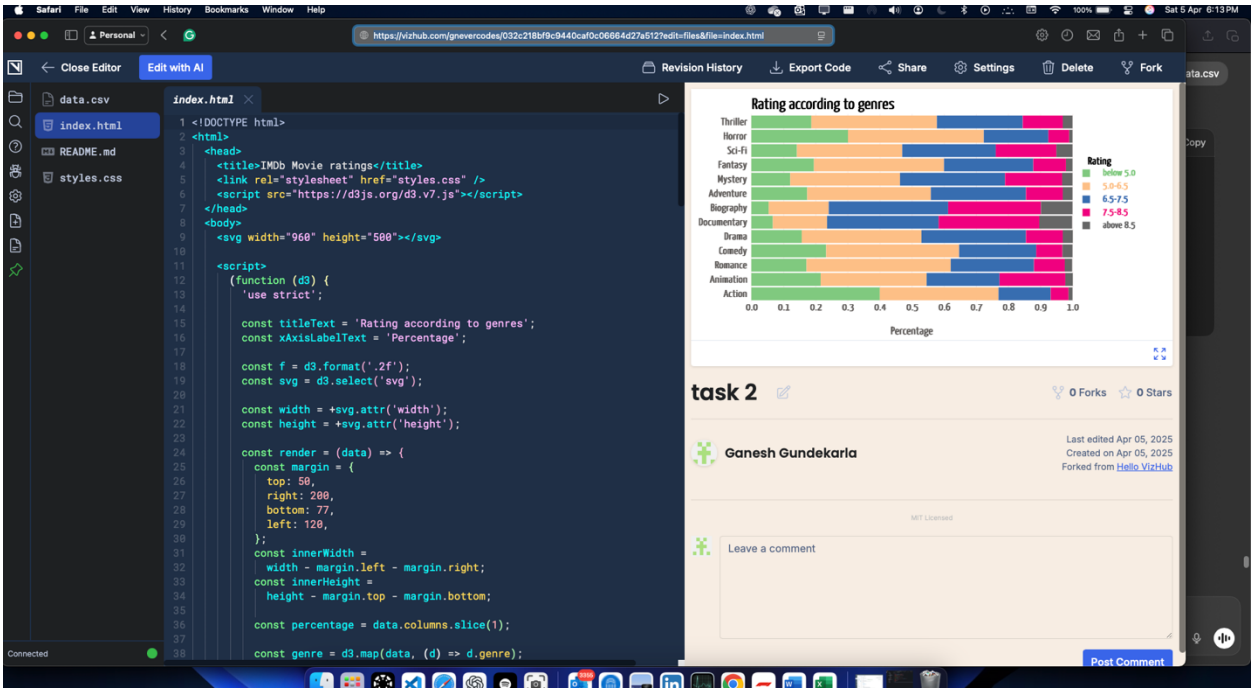
a. How to use vizhub online because the local vs code can be bit complex.
b. Also understood the creation of bar chart and how to effectively use the raw dataset from the github file.
c. Understood how js html and css interact within each other to create the bar graph .
d. How to create a gist file and get a raw link for that.

Task 2 :

Stacked bar chart with different colors.

Here is my link to task 2 of vizhub .

https://vizhub.com/gnevercodes/032c218bf9c9440caf0c06664d27a512?edit=files&file=index.html



Dataset :

Here , this dataset I have used to show how movies of very different genres are being distributed across imdb ratings. There are so many genres I have found and it has it's proportions of the movies that are falling into most five rating categories like from 5 to 8.5 which offers insights on people basically rate the movies.

Chart Analysis :

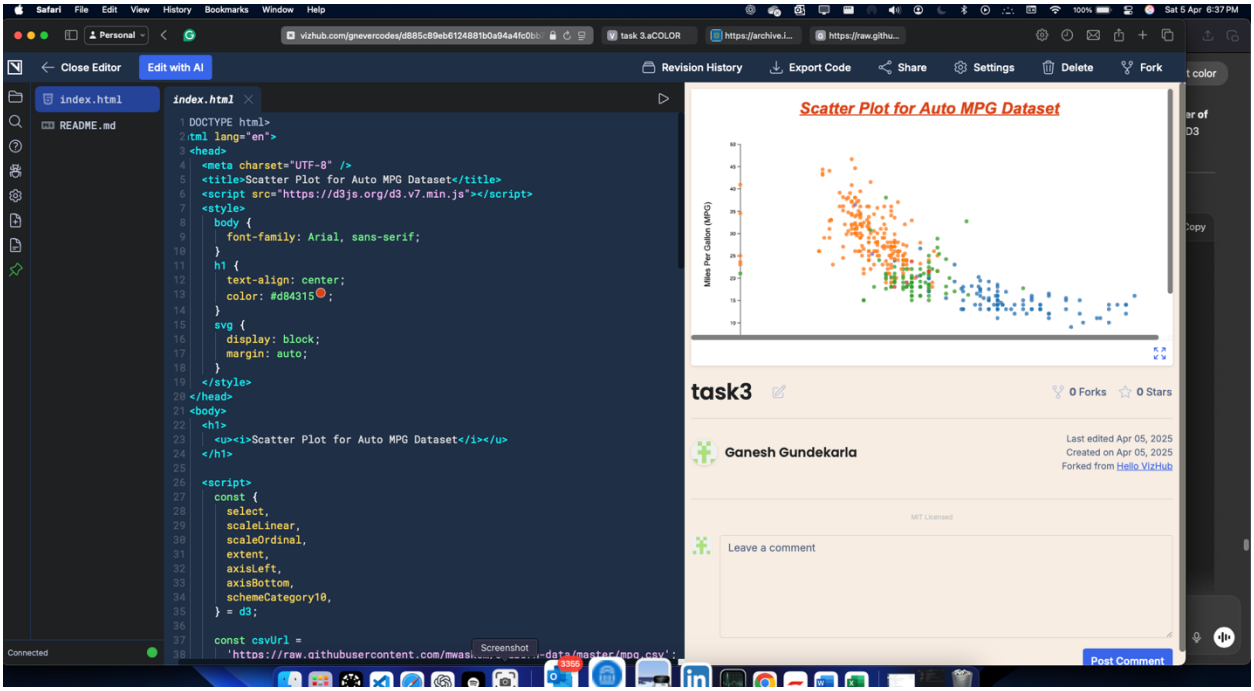
The stacked bar chart will be able to visualize the data clearly which is done through stacking of each rating that is being done for each genre . we can see that the biography and the documentary movies are the most highly rated ones where as horror and action are lower ones which we can clearly say that people are not a huge fan of horror movies . this data provies us with how some certain genres are most consistent in getting received by the audiences in a better way .

Task 3.a :

Scatter plot with color :

Using this datalink I found in the github :

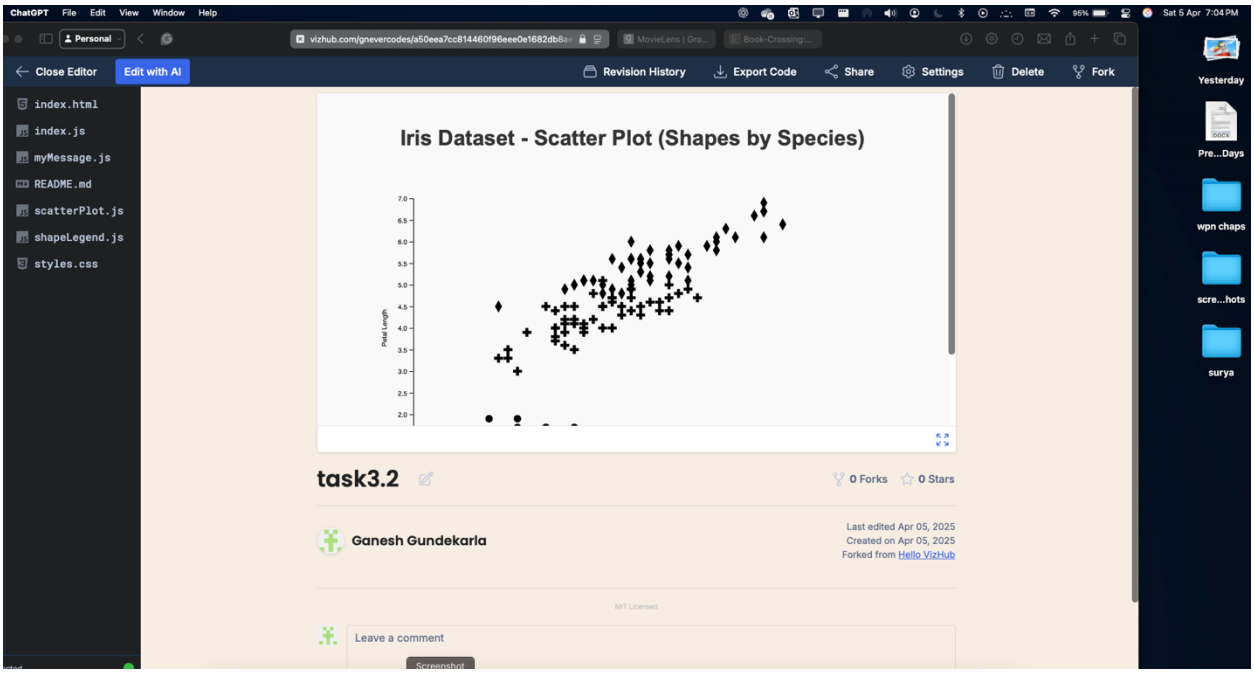
https://raw.githubusercontent.com/mwaskom/seaborn-data/master/mpg.csv



Here is the vizhub link :

https://vizhub.com/gnevercodes/d885c89eb6124881b0a94a4fc0bb729c?edit=files&file=index.html

task 3.2 scatter plot with shape .



Dataset explanation :

This dataset is a iris dataset which is basically used in data science and machine learning . this contains a hundred and fifty attributes which has sepal length and width , patal length and width and kind of species . this is chosen because of it’s ideal choice for data visualization and classification with its clear structure.

Chart analysis :

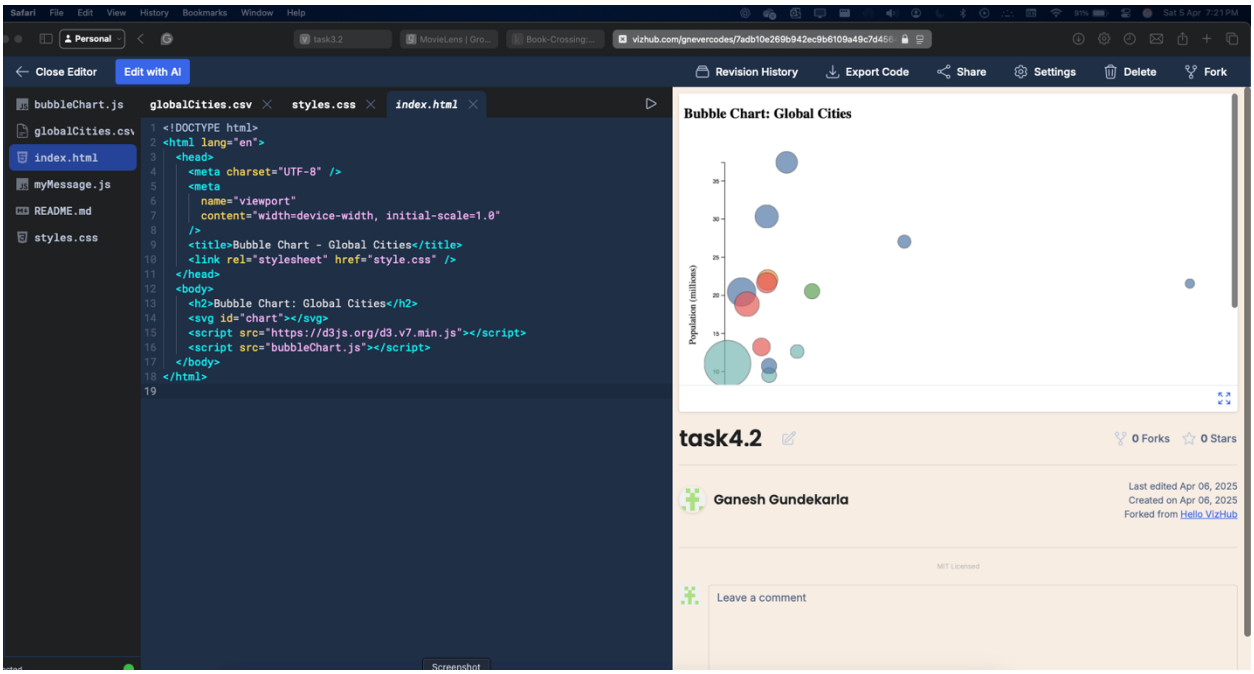
Here , the setosa species will be able to form a clear cluster which can be easily distinguishable from other species . here , the versicolor and the virginica has some overlap but the shape differentiation we did here is used to interpret the data more easily .

As sepal length increases , the the trend also increases , the petal length as well which indicates relationship .

Use of different shapes than color is helpful for accessibility .

Task 4 :

Using some example data I had done :



Vizhub code :

https://vizhub.com/gnevercodes/7adb10e269b942ec9b6109a49c7d4564?edit=files&file=index.html&tabs=globalCities.csv%7Estyles.css%7Eindex.html

dataset :

this one I had used is a sample dataset that is being created and titled as global cities which basically contains some information about major cities around the world. This dataset includes some valuable information like the city , population , area and region and where density has been calculated from the dataset which is population/area. This will help us to compare cities on size and density .

insights :

Asian cities like Tokyo delhi are highly populated and reflected in larger bubbles .

North American cities have more land than per person which showed in small bubbles.

Paris and Mumbai have very small areas but higher in population make high density resulting in bubble size. This visualization gives us a clear and comparative look in different cities .