



SULTAN IDRIS EDUCATION UNIVERSITY

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A NEW
CREATIVE
VISION

Manifesting Collaborative Creativity



MEE 3033: KEPINTARAN BUATAN / ARTIFICIAL INTELLIGENCES

SESI PENGAJIAN: SEM 2 (2021/2022)

KUMPULAN KULIAH MEE 3033 (A211): A

(INDIVIDUAL ASSIGNMENT)

Download Flag Datasets on UCI Machine Learning Repository and Import To RapidMiner



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Please download the Flag dataset from UCI Repository. Then import it into your folder in RapidMiner. Set the country as the label for the data and set the header names for all the column attributes. The information can be found on the flag dataset UCI website. Screenshot your step-by-step procedure (starting from the downloading process UCI website up to the result in RapidMiner software) and describe each step taken along the way. For the final image (as the example given below), please print screen your entire laptop/computer screen so I could evaluate your work. Submit your work as a pdf file in the MyGuru platform.

1. UCI Machine Learning Repository

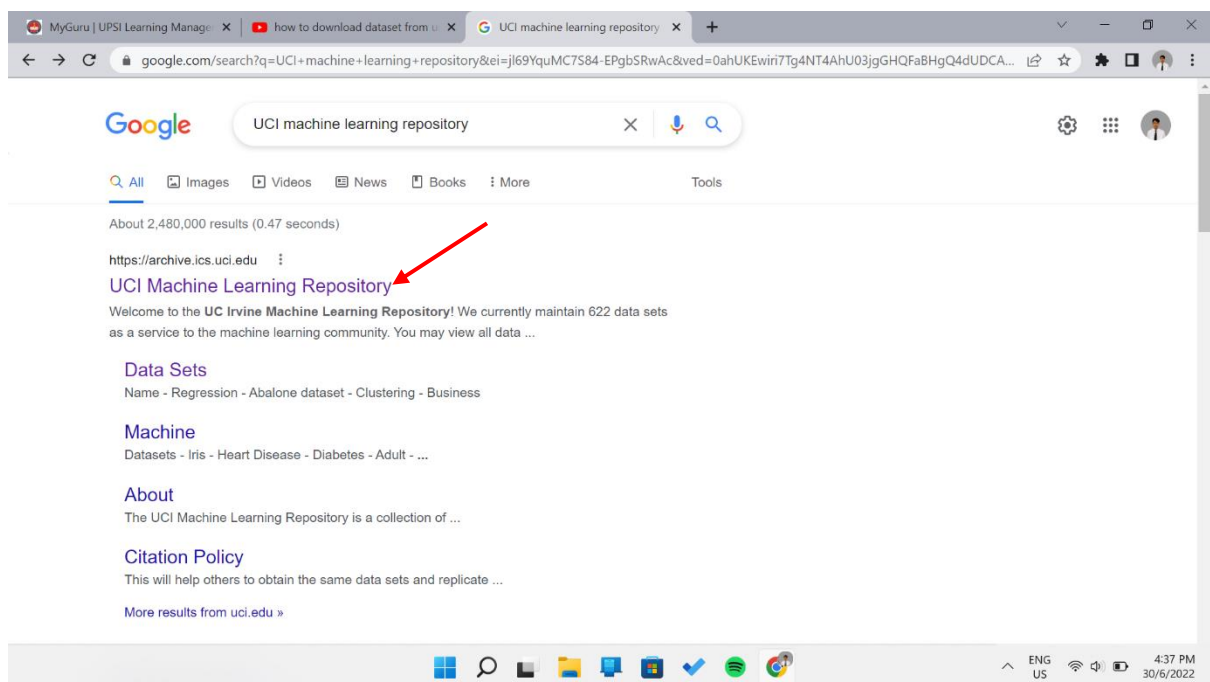


Figure 1: Google (Search UCI)

Go to google and search for UCI Machine Learning Repository[1]. After that, click or select the first one.

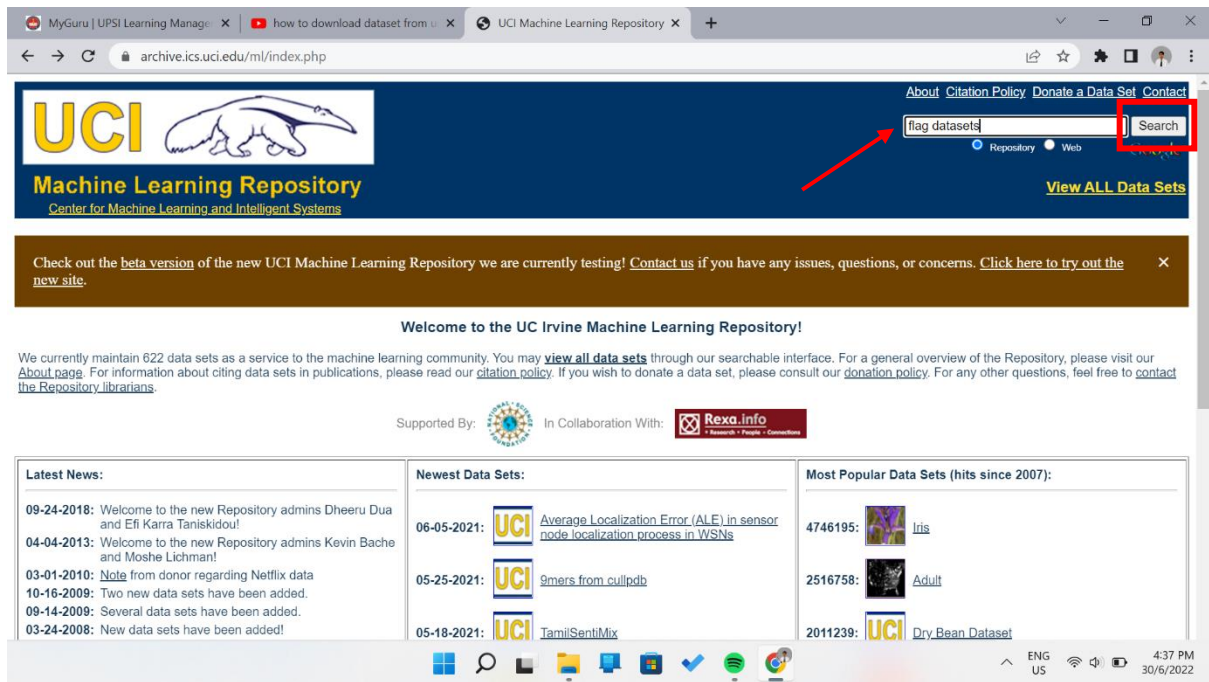


Figure 2: UCI Website

You will be taken to the main view of the UCI website. Search “Flag Datasets” on search box.

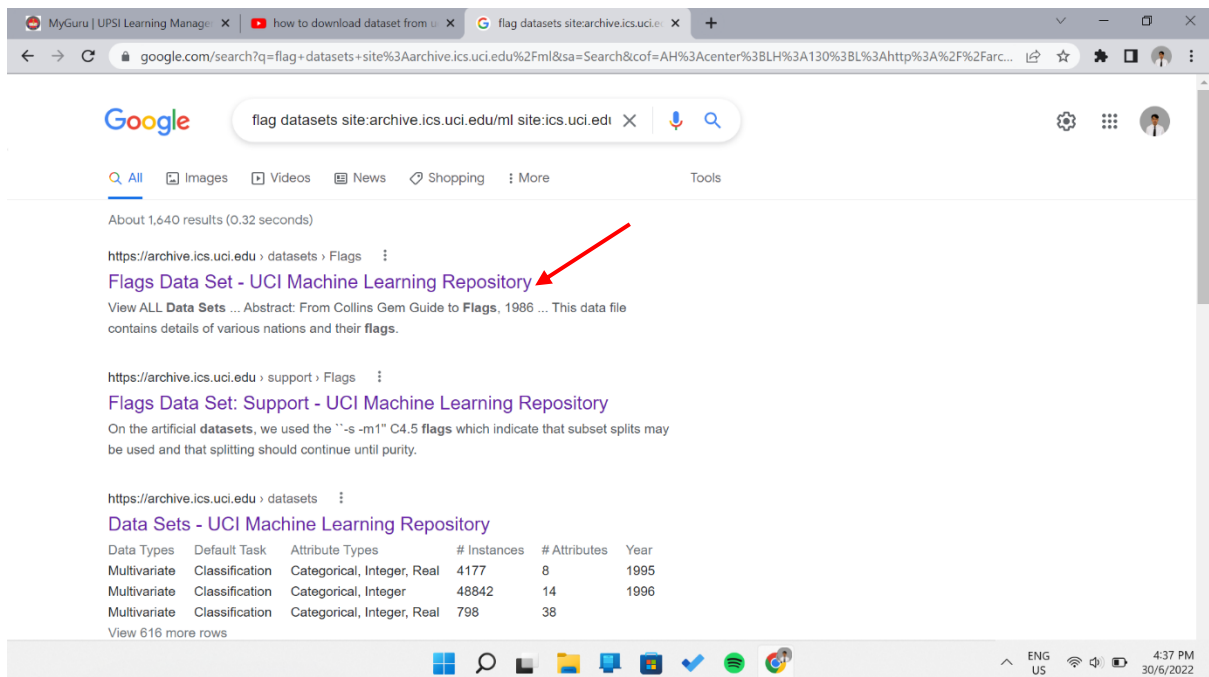


Figure 3: Google

After pressing the search button[2], you will be taken to google again. Click or select the first one

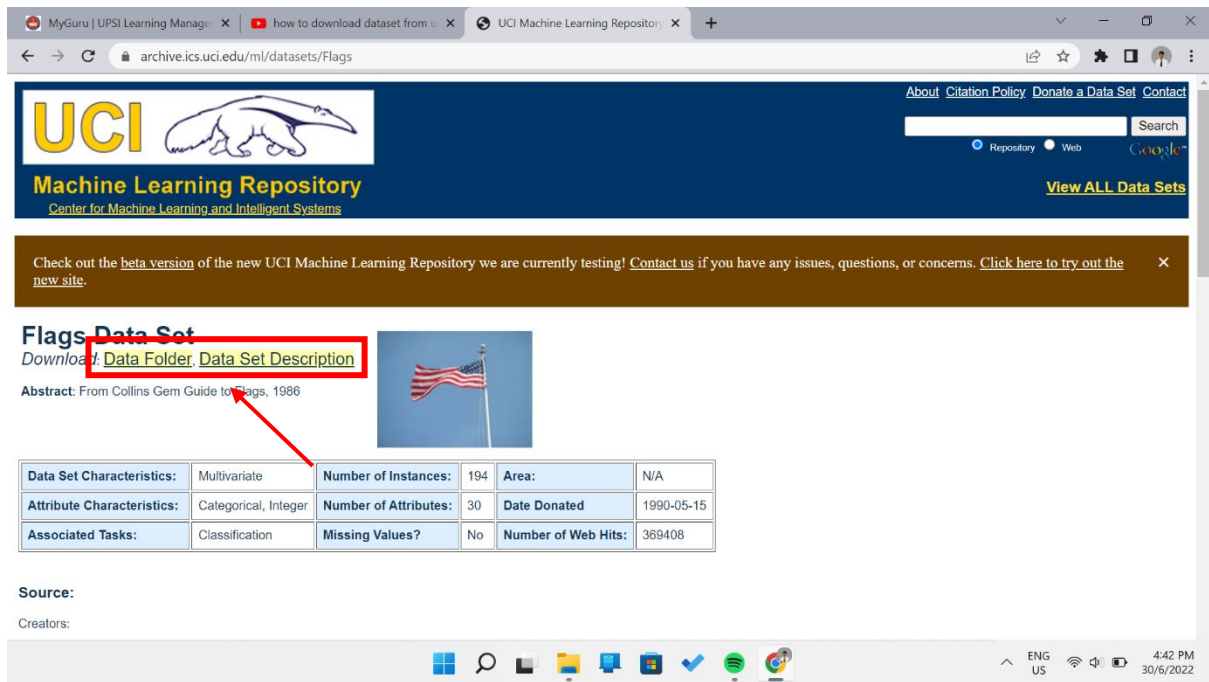


Figure 4: UCI Website (Flag Datasets)

After that, you will be led to the flag datasets in UCI website. Click or select the data folder.

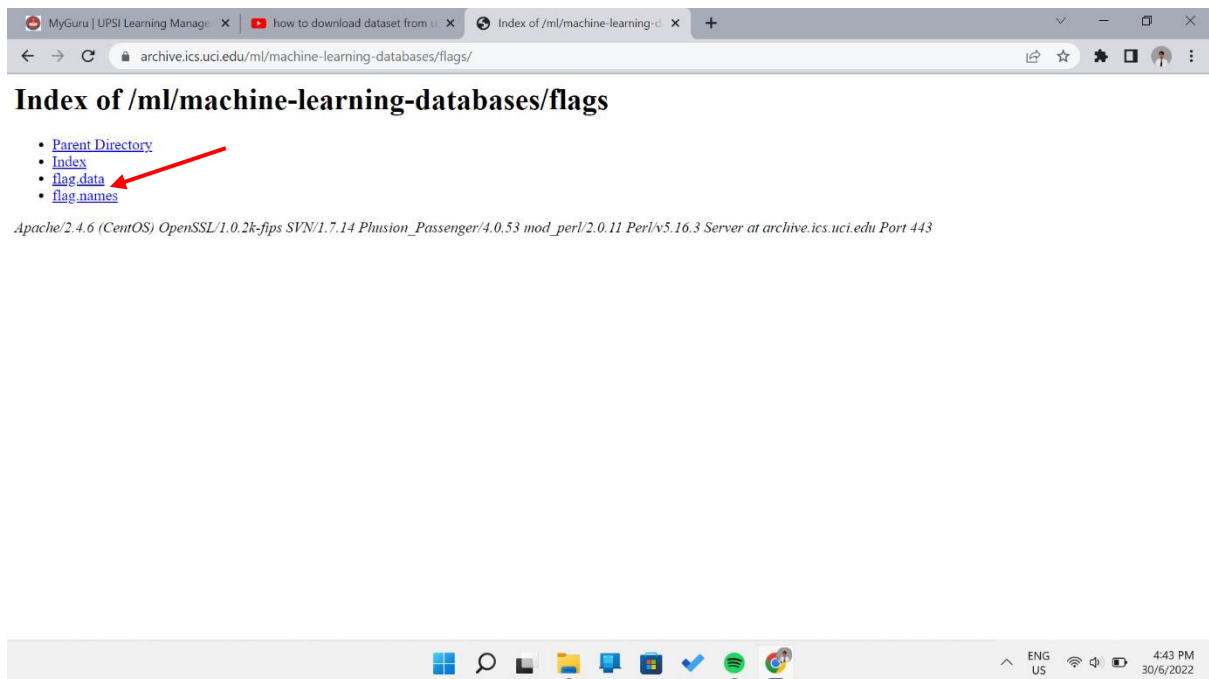


Figure 5: Index for Flag Datasets

Select “flag.data” and download the file. **You can also download “flag.names” for the description** For me, I will just download it.

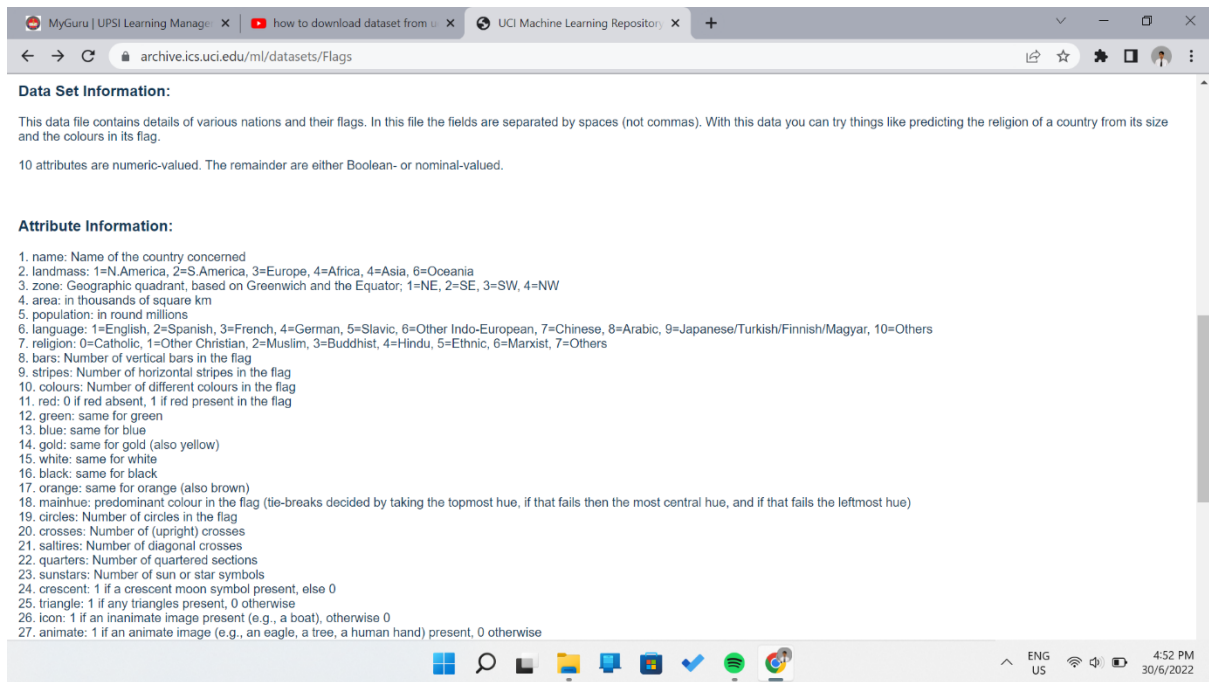


Figure 6: UCI Website (Flag Datasets Description)

You also can download the data description by clicking the data set description[4]. If you don't want to download the description, you also can just see it from the ICU website on flag datasets.

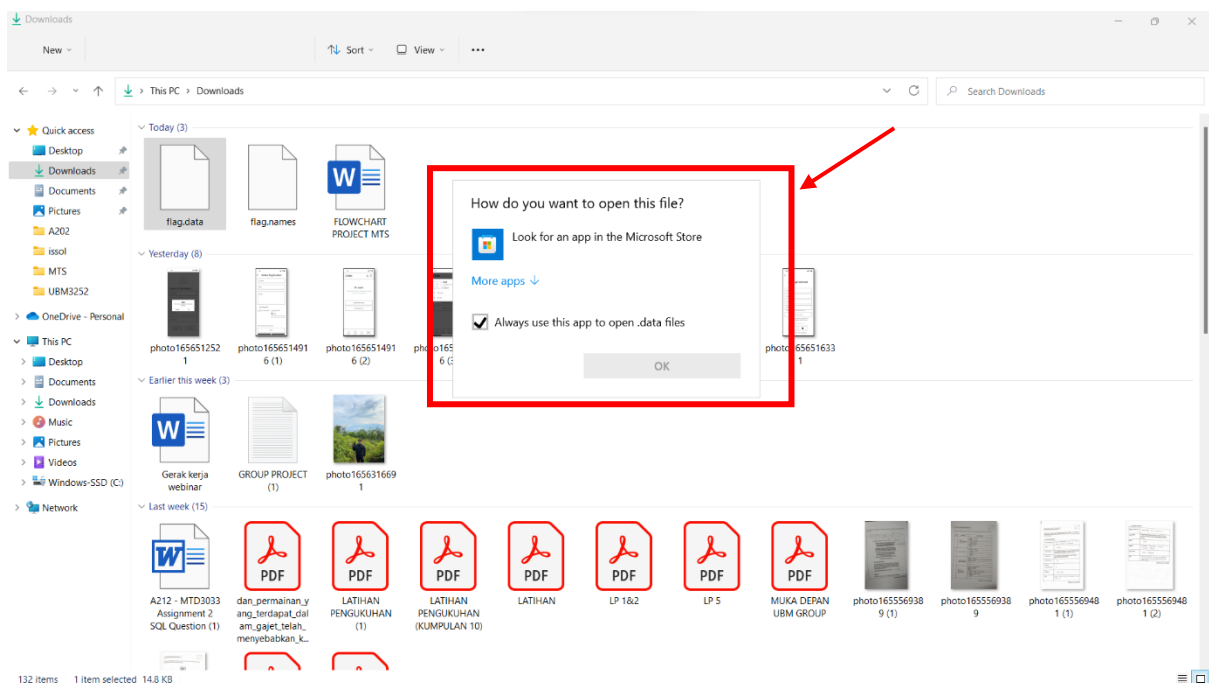


Figure 7: My Computer (Flag Datasets)

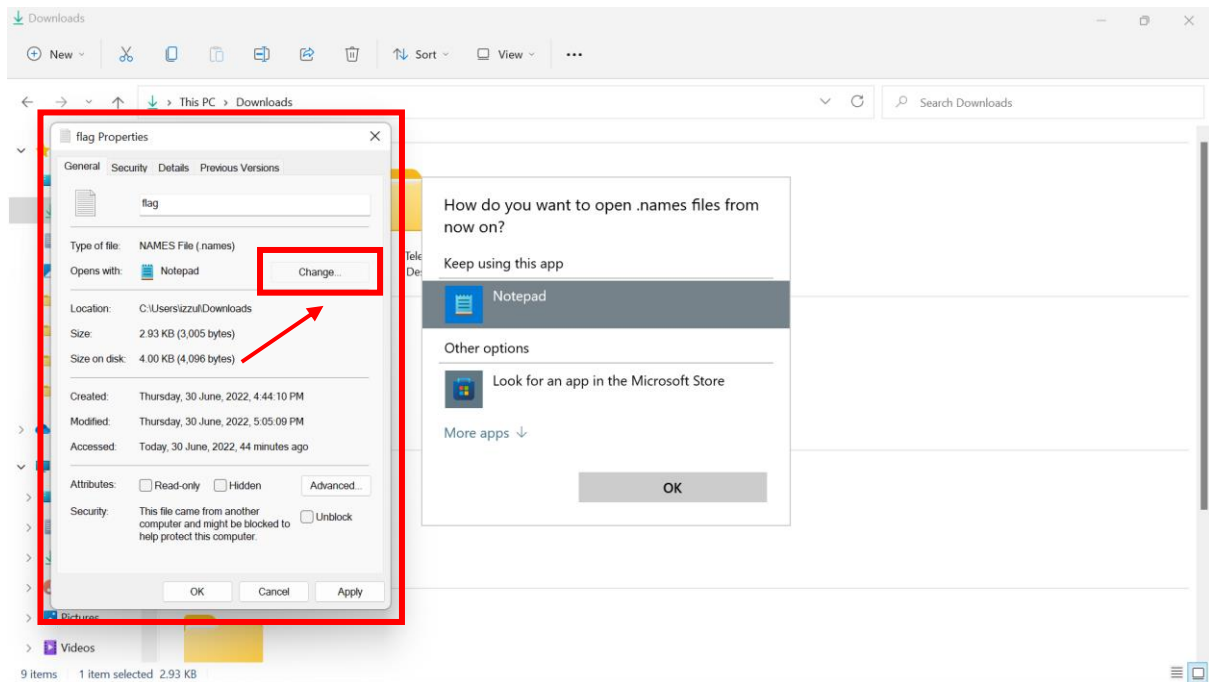


Figure 8: My Computer (Flag File Description)

After you downloaded the file of flag datasets, you will find that the file cannot be opened. Since that file cannot be open, we need to convert that file into notepad or text file. There's a lot of way to convert that file. First, right click flag file and find properties. Select those properties and click change on open with; select notepad to the data. **Do the same thing with data description file-if have**

2. Microsoft Excel

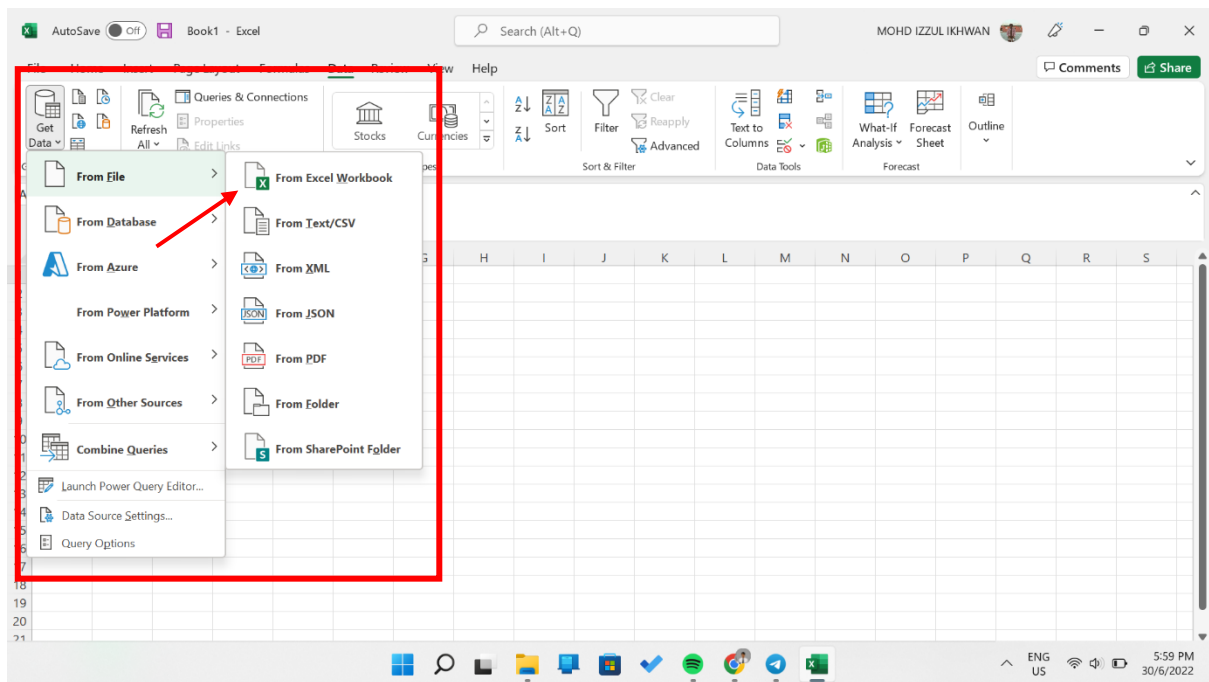


Figure 9: Excel (Importing Data)

Next step is open the Microsoft Excel on your computer. Go to “Data” and click on “Get Data”. Click on “From File” and “From Text/CSV”.

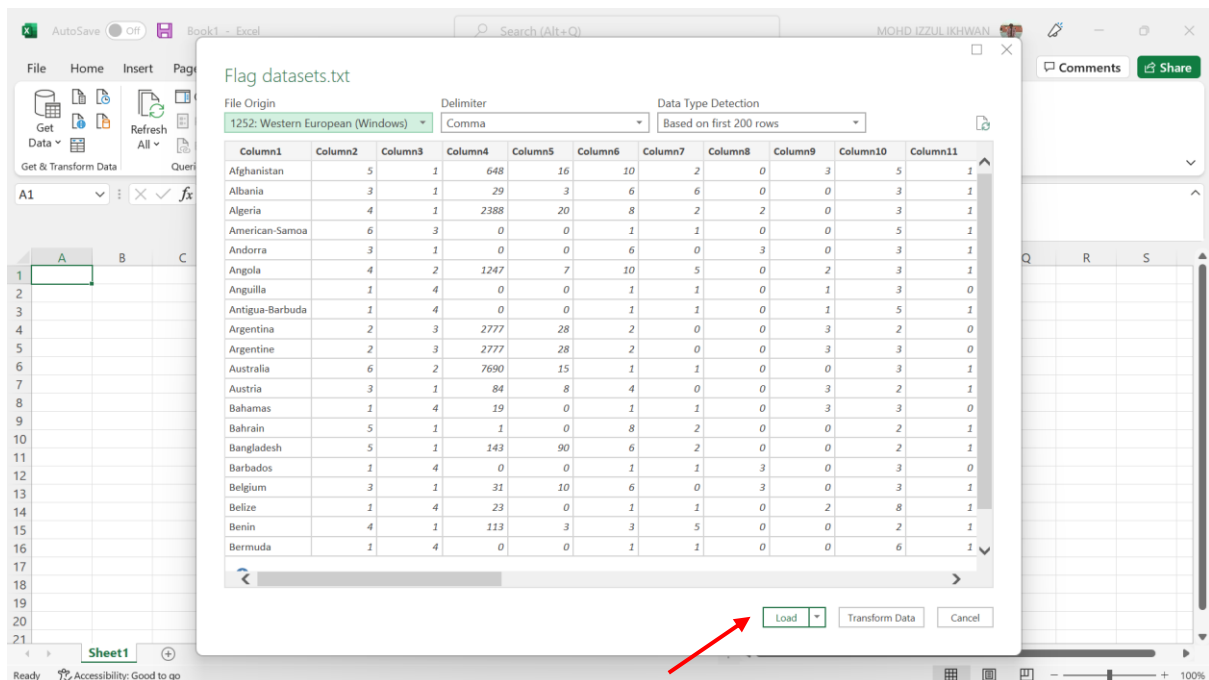


Figure 10: Excel (Data Setting/Preview)

After you choose the flag file, you now can customize and view the preview on how your table of data after converting. Just select load to see the real data after converting.

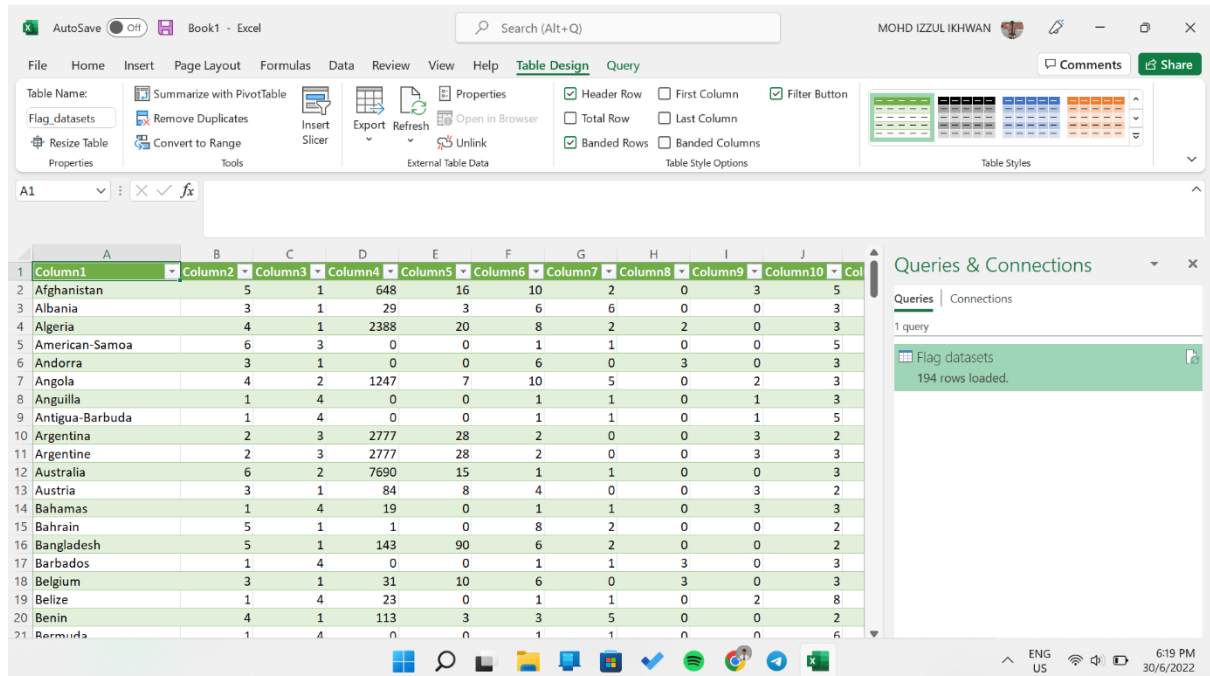


Figure 11: Excel (Columns)

You can see all the table data clearly except for the attributes name. we should insert it manually and have a revision from data descriptions that you had downloaded. **Or use the flag datasets description in UCL website[6]**

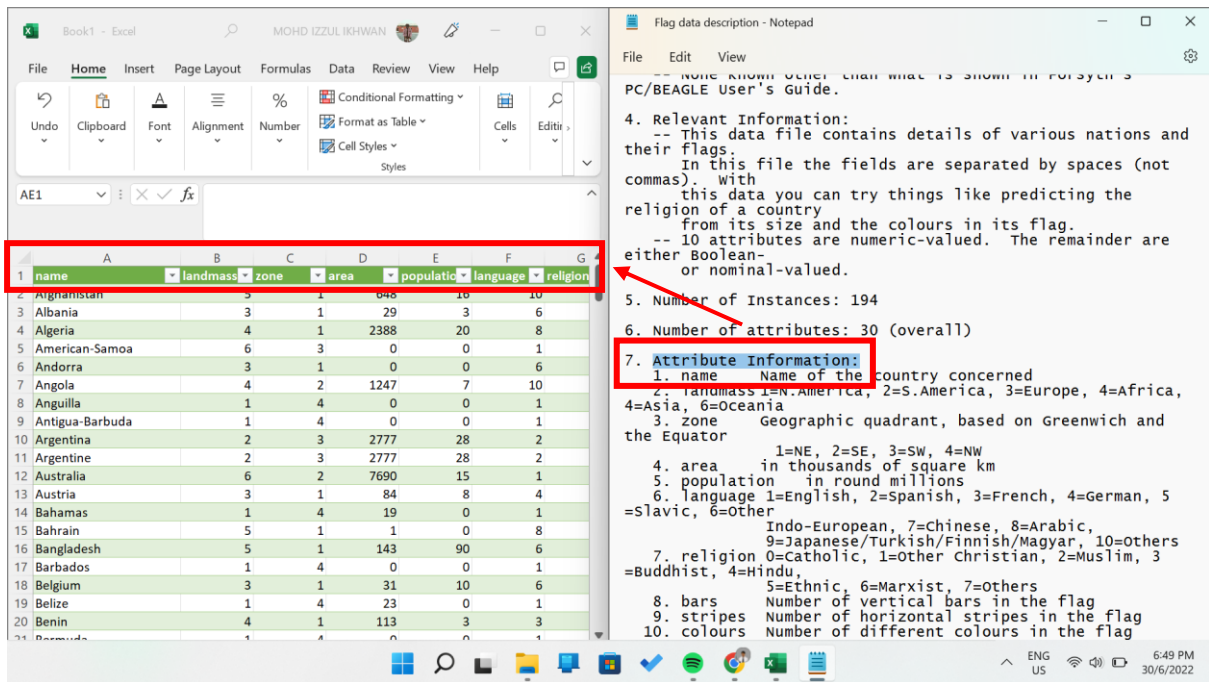


Figure 12: Excel and Notepad (Edit Columns)

It will see like this if you already manually insert the attributes name[12].

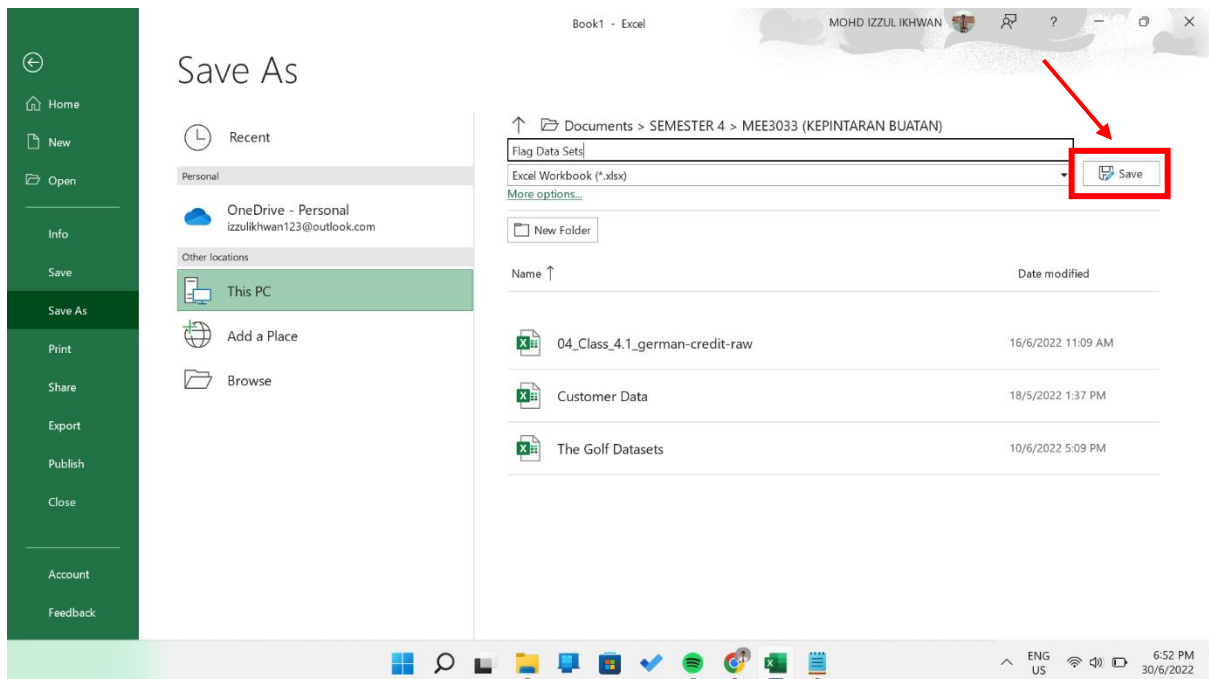


Figure 13: Excel (Save)

Save it for new excel file (.XLSX) so we can import the data to RapidMiner Software.

3. RapidMiner Software

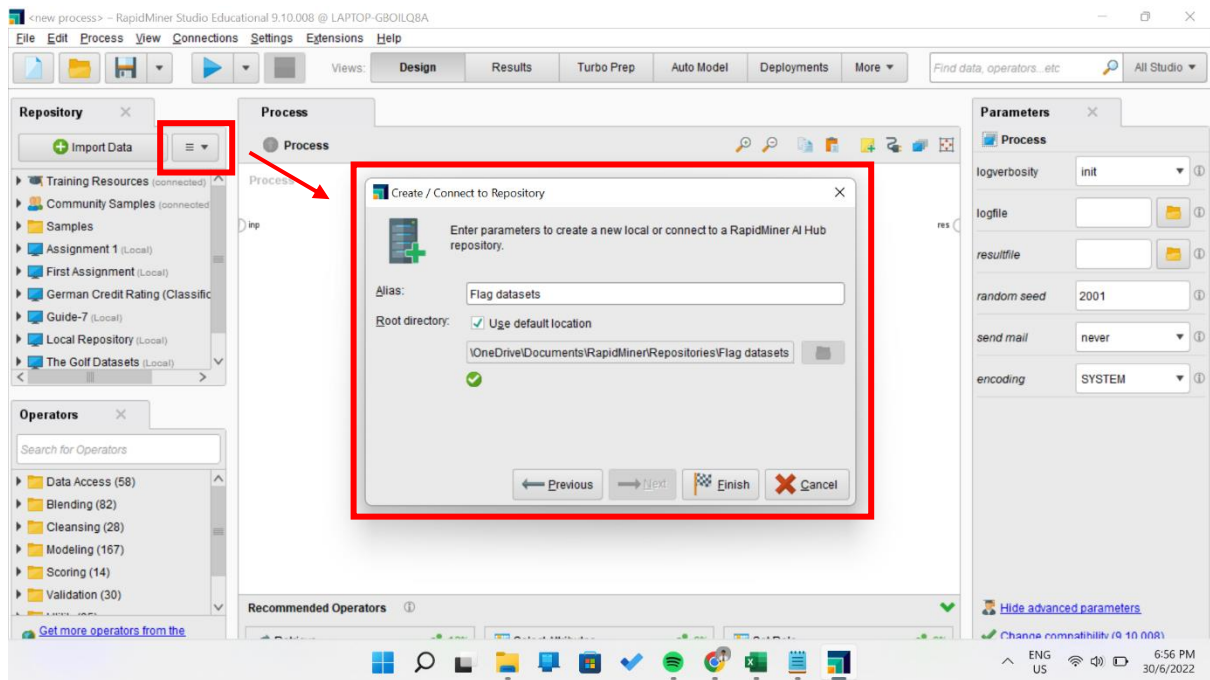


Figure 14: RapidMiner (Create Repository)

Next step, open RapidMiner and import the data to the RapidMiner. But first we must open new repository for this data.

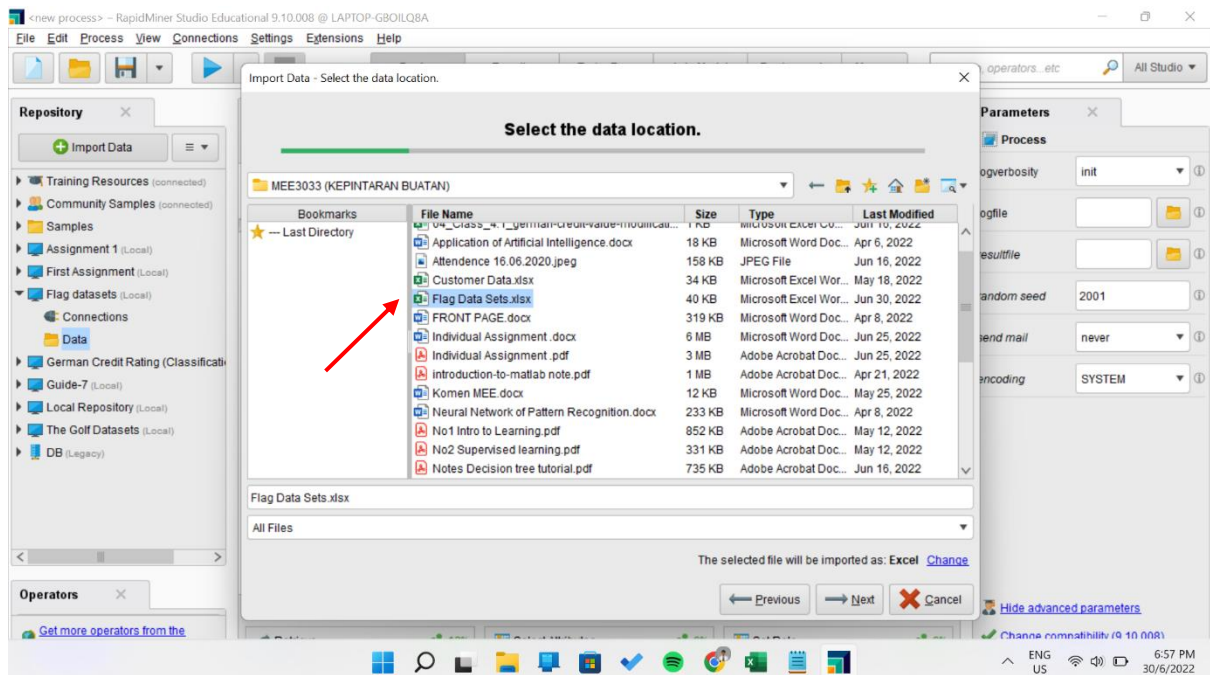


Figure 15: RapidMiner (Select Data)

After you create a flag datasets repository, click on import data, and select the flag datasets and click next.

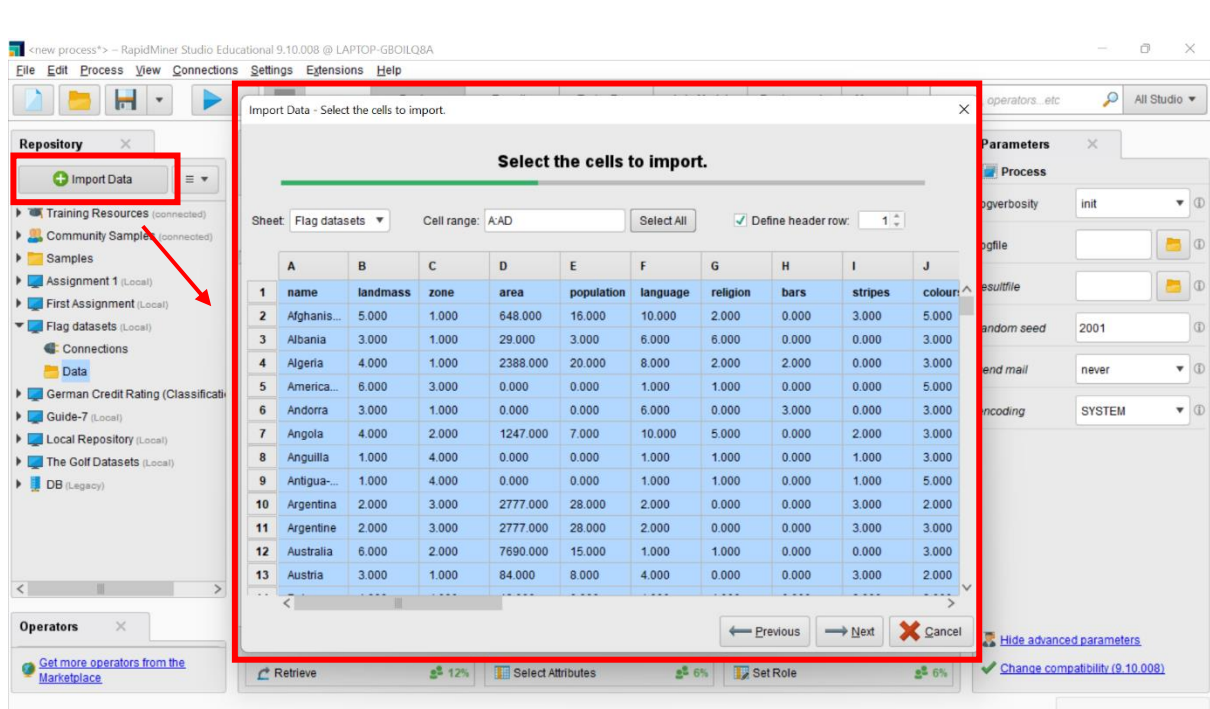


Figure 16: RapidMiner (Select Cells)

As usual, you will display this list on import data[16]. Just select all the cells to import all cells on the file.

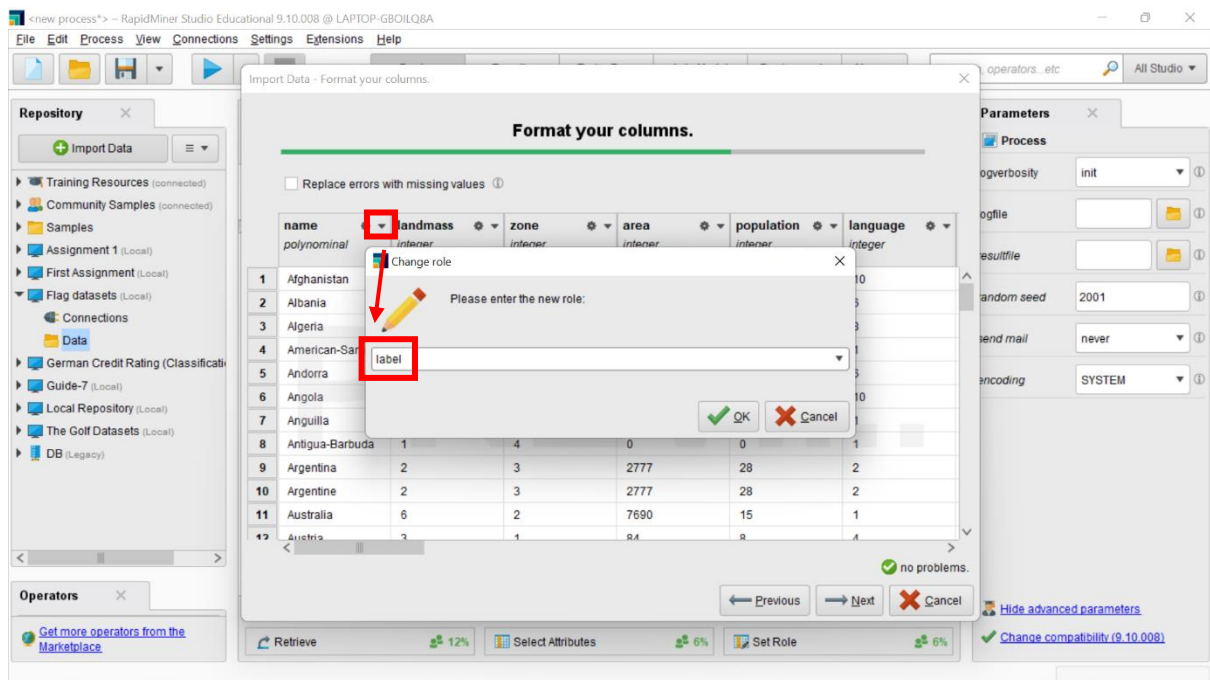


Figure 17: RapidMiner (Columns Customize)

On format columns step, change the role of the name attributes to “label” and just press next.

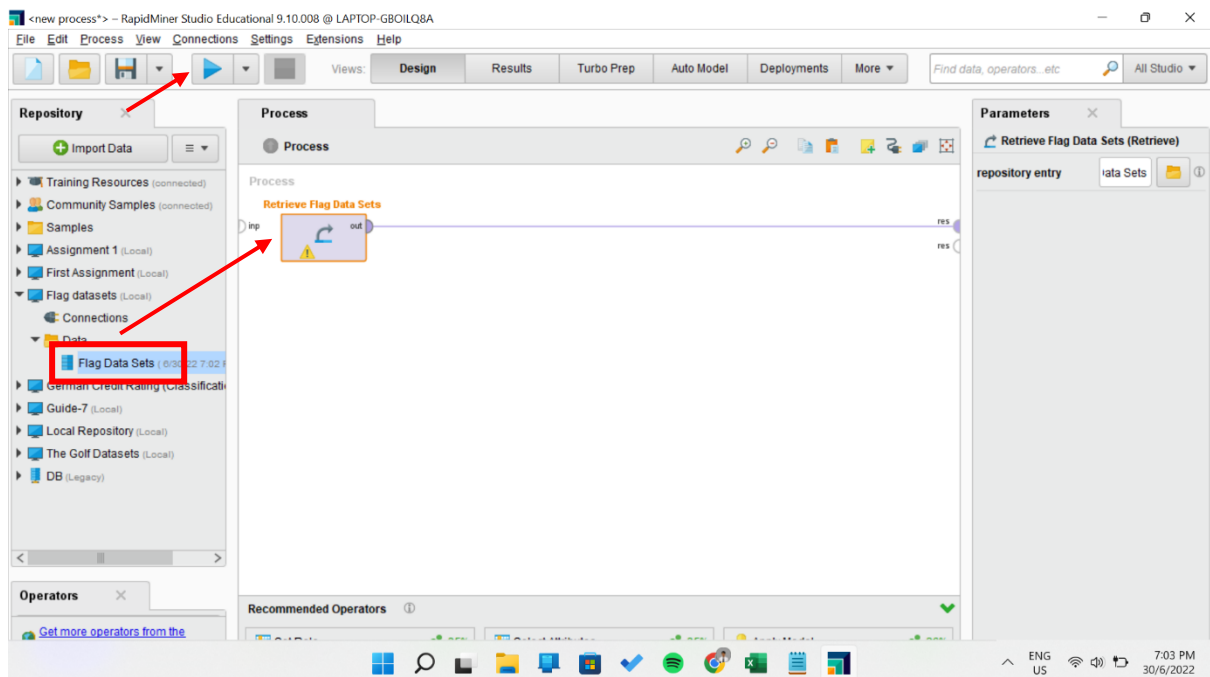
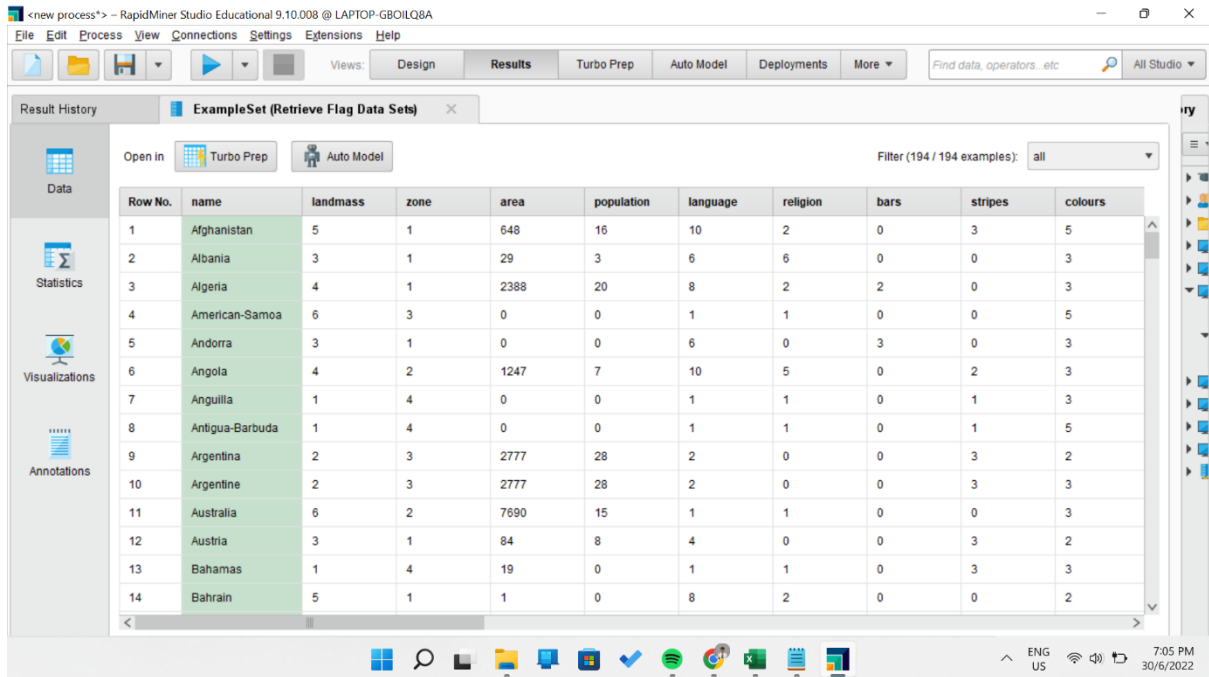


Figure 18: RapidMiner (Process)

Hold and drag the flag datasets to the process and link it to the process(res) and hit the run button.

4. Result



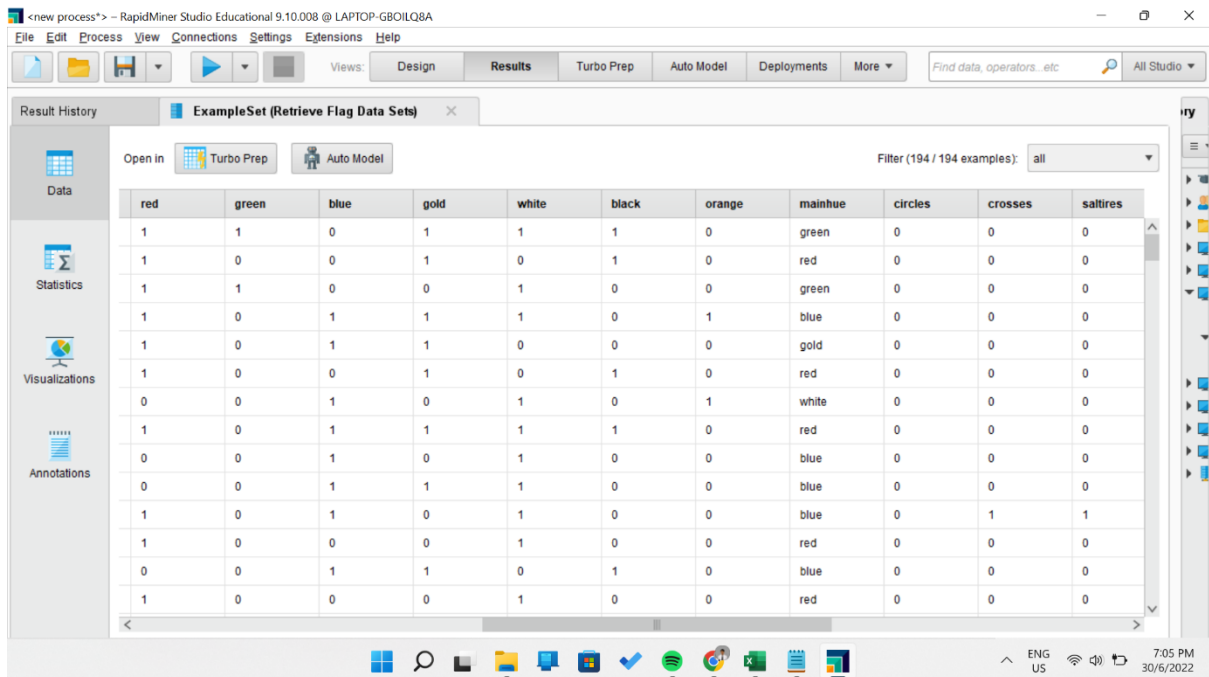
Result History: ExampleSet (Retrieve Flag Data Sets)

Open in: Turbo Prep, Auto Model

Filter (194 / 194 examples): all

Row No.	name	landmass	zone	area	population	language	religion	bars	stripes	colours
1	Afghanistan	5	1	648	16	10	2	0	3	5
2	Albania	3	1	29	3	6	6	0	0	3
3	Algeria	4	1	2388	20	8	2	2	0	3
4	American-Samoa	6	3	0	0	1	1	0	0	5
5	Andorra	3	1	0	0	6	0	3	0	3
6	Angola	4	2	1247	7	10	5	0	2	3
7	Anguilla	1	4	0	0	1	1	0	1	3
8	Antigua-Barbuda	1	4	0	0	1	1	0	1	5
9	Argentina	2	3	2777	28	2	0	0	3	2
10	Argentina	2	3	2777	28	2	0	0	3	3
11	Australia	6	2	7690	15	1	1	0	0	3
12	Austria	3	1	84	8	4	0	0	3	2
13	Bahamas	1	4	19	0	1	1	0	3	3
14	Bahrain	5	1	1	0	8	2	0	0	2

Figure 19: Result-1



Result History: ExampleSet (Retrieve Flag Data Sets)

Open in: Turbo Prep, Auto Model

Filter (194 / 194 examples): all

red	green	blue	gold	white	black	orange	mainhue	circles	crosses	saltires
1	1	0	1	1	1	0	green	0	0	0
1	0	0	1	0	1	0	red	0	0	0
1	1	0	0	1	0	0	green	0	0	0
1	0	1	1	1	0	1	blue	0	0	0
1	0	1	1	0	0	0	gold	0	0	0
1	0	0	1	0	1	0	red	0	0	0
0	0	1	0	1	0	1	white	0	0	0
1	0	1	1	1	1	0	red	0	0	0
0	0	1	0	1	0	0	blue	0	0	0
0	0	1	1	1	0	0	blue	0	0	0
1	0	1	0	1	0	0	blue	0	1	1
1	0	0	0	1	0	0	red	0	0	0
0	0	1	1	0	1	0	blue	0	0	0
1	0	0	0	1	0	0	red	0	0	0

Figure 20: Result-2

Result History

ExampleSet (Retrieve Flag Data Sets)

Open in: Turbo Prep Auto Model

Filter (194 / 194 examples): all

crosses	saltires	quarters	sunstars	crescent	triangle	icon	animate	text	toleft	botright
0	0	0	1	0	0	1	0	0	black	green
0	0	0	1	0	0	0	1	0	red	red
0	0	0	1	1	0	0	0	0	green	white
0	0	0	0	0	1	1	1	0	blue	red
0	0	0	0	0	0	0	0	0	blue	red
0	0	0	1	0	0	1	0	0	red	black
0	0	0	0	0	0	0	1	0	white	blue
0	0	0	1	0	1	0	0	0	black	red
0	0	0	0	0	0	0	0	0	blue	blue
0	0	0	1	0	0	0	0	0	blue	blue
1	1	1	6	0	0	0	0	0	white	blue
0	0	0	0	0	0	0	0	0	red	red
0	0	0	0	0	1	0	0	0	blue	blue
0	0	0	0	0	0	0	0	0	white	red

Figure 21: Result-3

This is the outcome from that flag datasets that I downloaded it from UCI machine learning repository.