

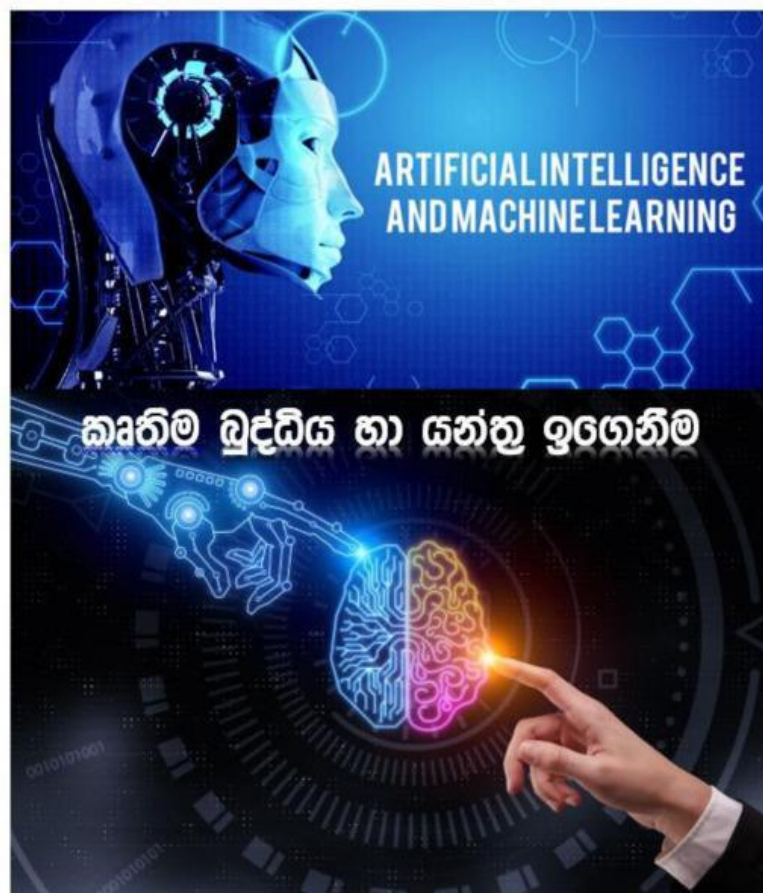
Project 164



**Coding
School**



AI and Machine Learning

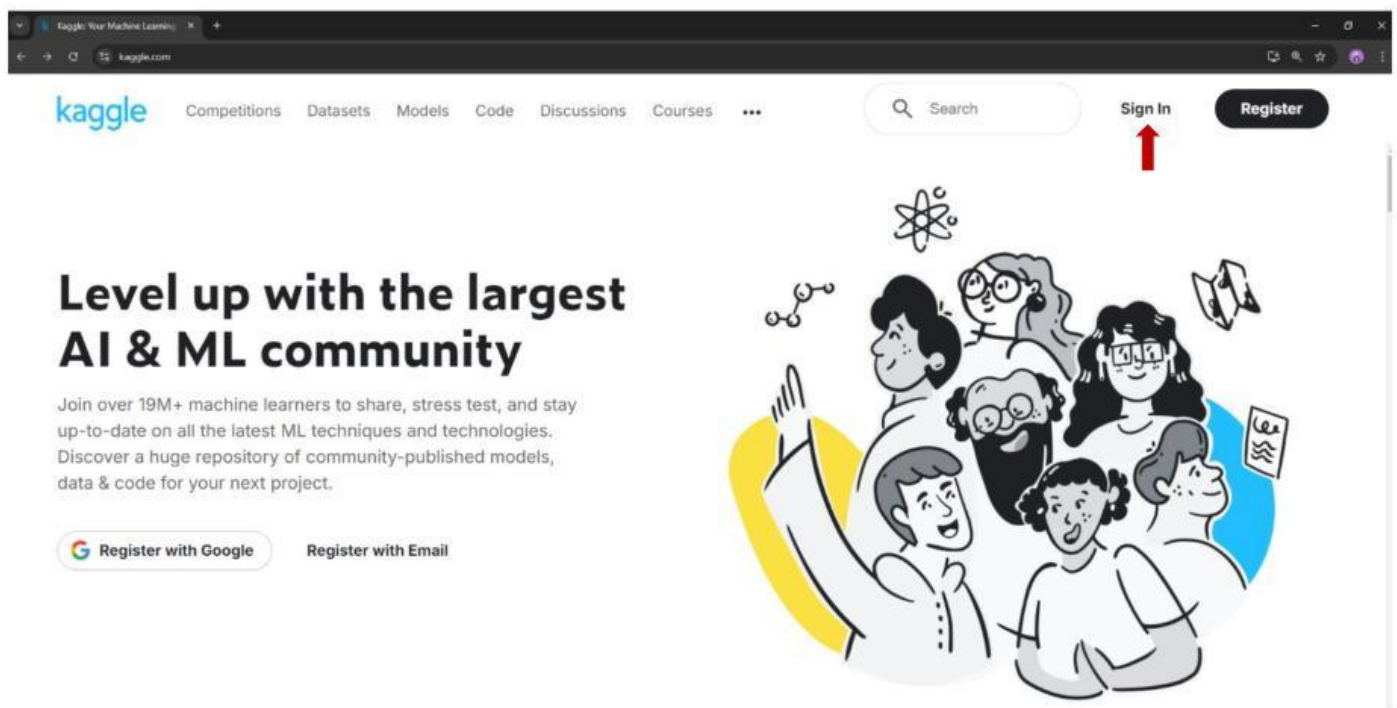


Start here

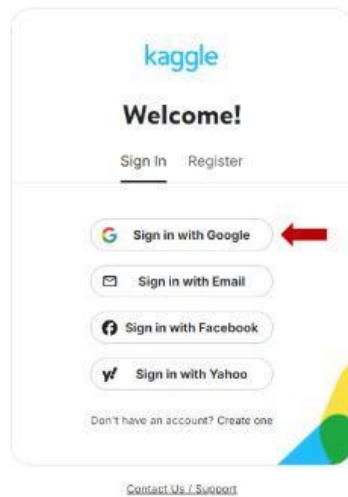
- ❖ Here we will see how to train our dataset using AI and machine learning lab in Code.org and create a mobile app using it.
- ❖ First find a dataset according to your requirement.
- ❖ Here, the Kaggle website is used to select a dataset, and thus a dataset can be obtained easily and for free. The link of that website is below.

<https://www.kaggle.com/>

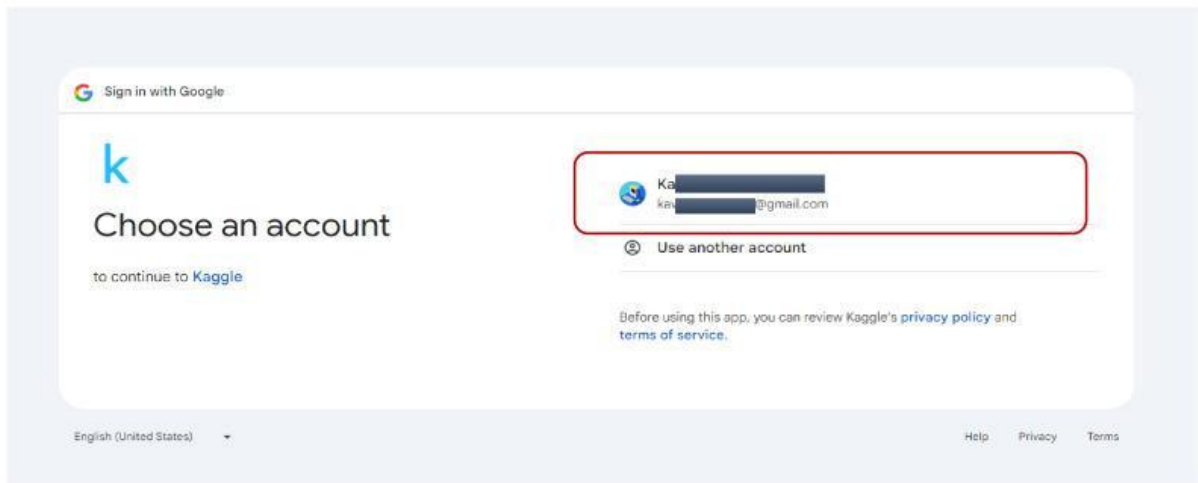
- ❖ First of all, you have to sign in for that website. Click on the sing in button for that.



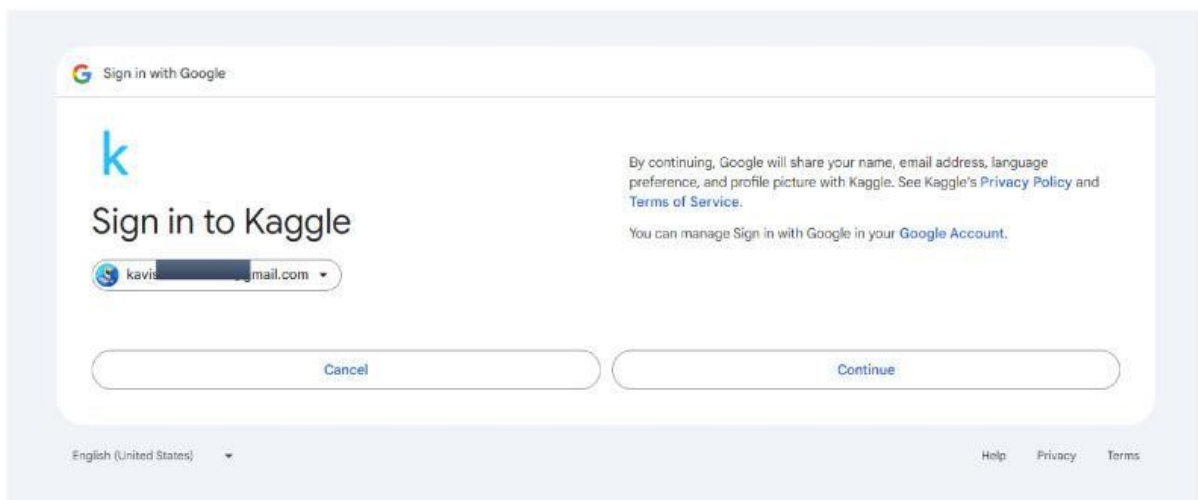
- ❖ Then a page like below will be loaded. Here we select Sign in with Google and sign in to the kaggle website.



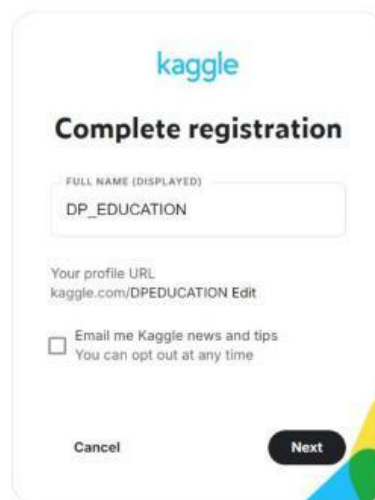
❖ Now select your email and sign in.



❖ Now click on the continue button.

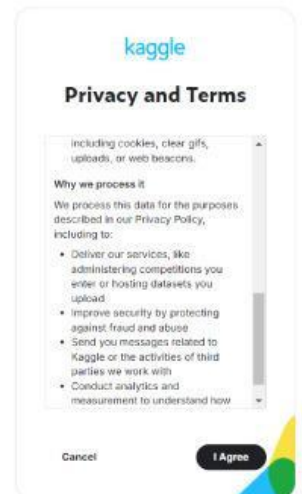


- ❖ Now provide a username for your account.

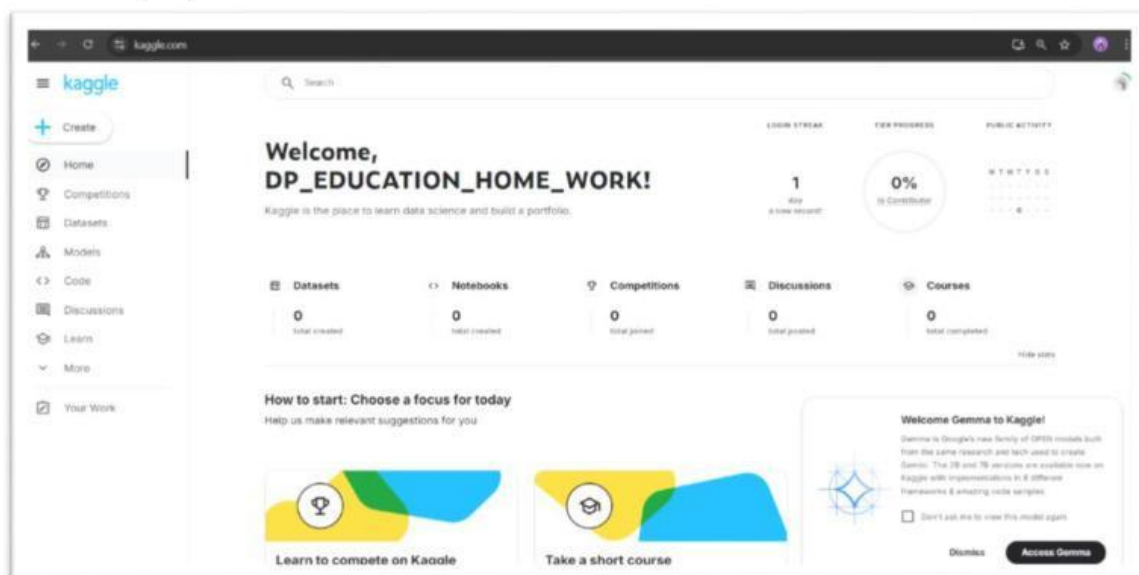


The image shows the 'Complete registration' form on Kaggle. At the top is the Kaggle logo. Below it, the title 'Complete registration' is centered. There is a text input field for 'FULL NAME (DISPLAYED)' with the value 'DP_EDUCATION'. Below this, it says 'Your profile URL' followed by 'kaggle.com/DPEDUCATION' and an 'Edit' link. There is a checkbox for 'Email me Kaggle news and tips' with the subtext 'You can opt out at any time'. At the bottom left is a 'Cancel' button, and at the bottom right is a 'Next' button.

- ❖ That username should be unique username. That is, someone else should not have a username with that name.
- ❖ Now click on I Agree button and complete your account permanently.
- ❖ Then the account you created on the kaggle website will be displayed as follows.



The image shows the 'Privacy and Terms' dialog box. It has the Kaggle logo at the top. The title is 'Privacy and Terms'. Below the title, it says 'including cookies, clear gifs, uploads, or web beacons.' There is a section titled 'Why we process it' followed by a paragraph: 'We process this data for the purposes described in our Privacy Policy, including to:'. Below this are four bullet points: '• Deliver our services, like administering competitions you enter or hosting datasets you upload.', '• Improve security by protecting against fraud and abuse', '• Send you messages related to Kaggle or the activities of third parties we work with', and '• Conduct analytics and measurement to understand how'. At the bottom left is a 'Cancel' button, and at the bottom right is an 'I Agree' button.



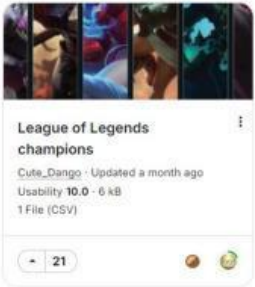
- ❖ Now you can get the required dataset through this website.
- ❖ Now click on the Datasets tab in the side bar.

❖ Here you can get the dataset according to each topic.

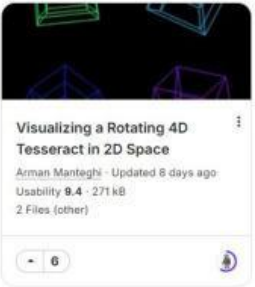
Games See All



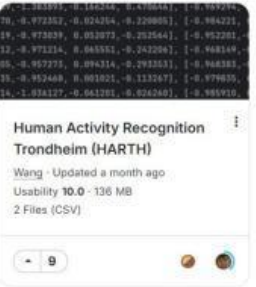
T20 World Cup 2024 Cricket Dataset
Muhammad Ehsan · Updated 12 days ago
Usability 10.0 · 2 kB
3 Files (CSV)



League of Legends champions
Cute_Dango · Updated a month ago
Usability 10.0 · 6 kB
1 File (CSV)



Visualizing a Rotating 4D Tesseract in 2D Space
Arman Manteghi · Updated 8 days ago
Usability 9.4 · 271 kB
2 Files (other)

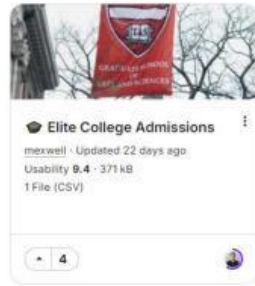


Human Activity Recognition Trondheim (HARTH)
Wang · Updated a month ago
Usability 10.0 · 136 MB
2 Files (CSV)

Education See All



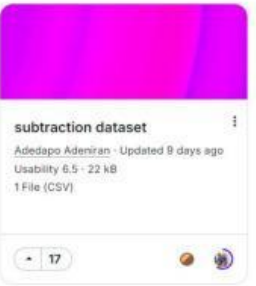
Computer Science Students Career Prediction
Rugved Patel · Updated a month ago
Usability 9.4 · 3 kB
1 File (CSV)



Elite College Admissions
mexwell · Updated 22 days ago
Usability 9.4 · 371 kB
1 File (CSV)



Talking Stage Training Data
Adedapo Adeniran · Updated 2 months ago
Usability 8.8 · 22 kB
1 File (CSV)



subtraction dataset
Adedapo Adeniran · Updated 9 days ago
Usability 6.5 · 22 kB
1 File (CSV)

News See All



Forbes AI50 2024
Saeed Sarrafzadeh · Updated 11 days ago
Usability 8.8 · 2 kB
1 File (CSV)



BBC News Articles
Bhavik Jikadara · Updated 2 months ago
Usability 10.0 · 3 MB
1 File (CSV)



News Sentiment Analysis
Clovis Vieira · Updated a month ago
Usability 10.0 · 670 kB
1 File (CSV)



Facebook's Supreme Court
Joakim Arvidsson · Updated 2 months ago
Usability 10.0 · 74 kB
2 Files (CSV)

- ❖ Each topic has a dataset as above. And when you click on see all, you can see more datasets related to that topic. You can find a dataset you need here.
- ❖ And you can use the required dataset by the search bar here.
- ❖ Let us search which dataset is related to Sri Lanka.
- ❖ You can also search according to the topic you want and download a dataset you want.

Datasets

[+ New Dataset](#)
[Your Work](#)

Filters

All datasets X
Computer Science
Education
Classification
Computer Vision
NLP
Data Visualization
Pre-Trained Model

151 Datasets
Hotness ▾

	Twitter Dataset: Sri Lanka Crisis Vishesh Thakur · Updated 2 years ago Usability 9.7 · 1 File (CSV) · 2 MB	35 Silver
	Sri Lanka Weather Dataset Rasul · Updated 4 months ago Usability 10.0 · 2 Files (CSV) · 10 MB	28 Bronze
	Sri Lanka vehicle number plates Rohan Kumara · Updated 2 years ago Usability 8.8 · 502 Files (other) · 21 MB	14 Bronze
	Destination Sri Lanka Kanchana1990 · Updated 4 months ago Usability 9.4 · 1 File (CSV) · 65 kB	24 Bronze
	Sri Lankan Rupee Rhythms: 13-Year Forex Dance Kanchana1990 · Updated 9 months ago Usability 10.0 · 1 File (CSV) · 225 kB	49 Bronze
	Economy of Sri Lanka Amritha R.J · Updated 2 years ago Usability 9.4 · 1 File (CSV) · 3 kB	33 Bronze

- ❖ Let's assume that we want to train a dataset related to dengue disease and prepare a model. For that, a dataset should be found first.

Datasets

[+ New Dataset](#)
[Your Work](#)

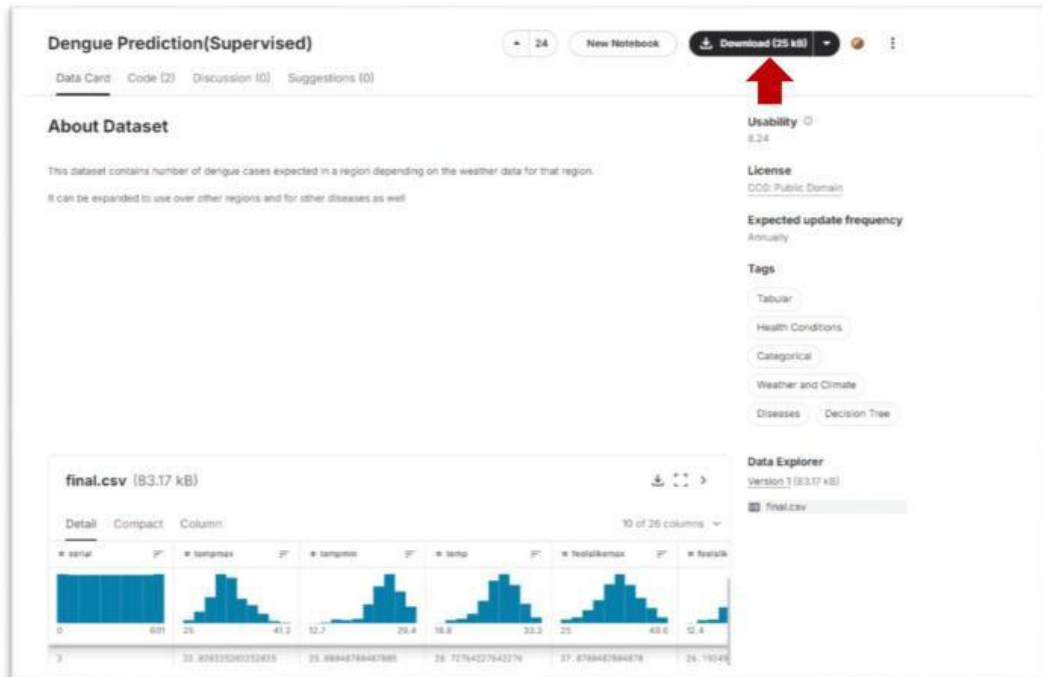
Filters

All datasets X
Computer Science
Education
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Computer Vision
NLP
Data Visualization
Pre-Trained Model

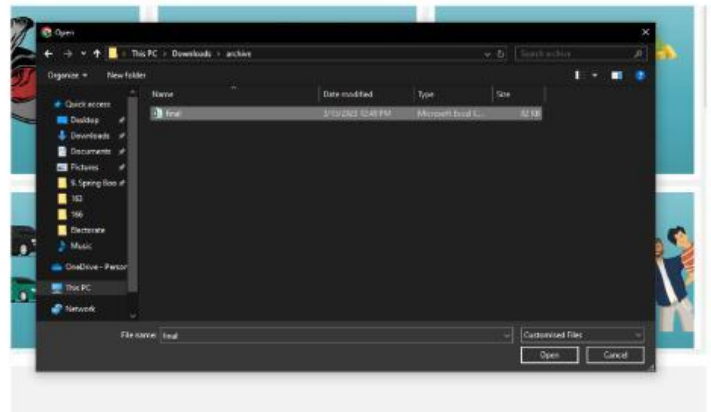
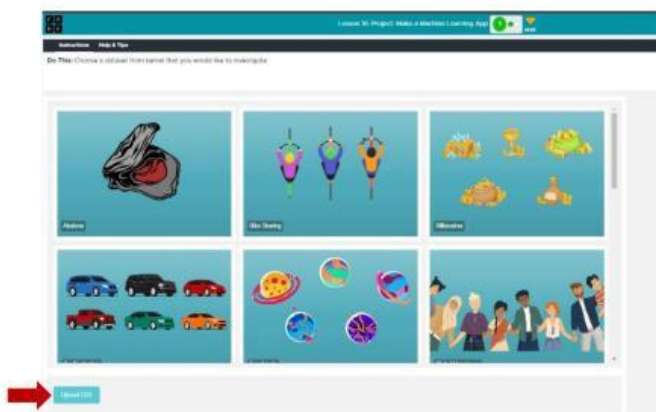
68 Datasets
Hotness ▾

	Philippines Dengue Cases 2016-2020 Jhan Vincent Supo · Updated 2 years ago Usability 10.0 · 1 File (CSV) · 7 kB	45 Bronze
	Dengue Dataset of Bangladesh MD. Kammar Ahmud · Updated 9 months ago Usability 10.0 · 1 File (CSV) · 7 kB	24
	Dengue Cases in the Philippines Francis Paul Flores · Updated 7 years ago Usability 8.2 · 1 File (CSV) · 15 kB	87 Bronze
	Dengue Prediction(Supervised) Siddhu R · Updated a year ago Usability 8.3 · 1 File (CSV) · 25 kB	24 Bronze
	Dengue, Temperatura e Chuvas em Campinas-SP Renan Gomes · Updated 8 years ago Usability 8.8 · 1 File (CSV) · 3 kB	30 Bronze
	Dengue Fragments Frequency TevDLG · Updated 2 years ago Usability 9.4 · 1 File (CSV) · 11 MB	6

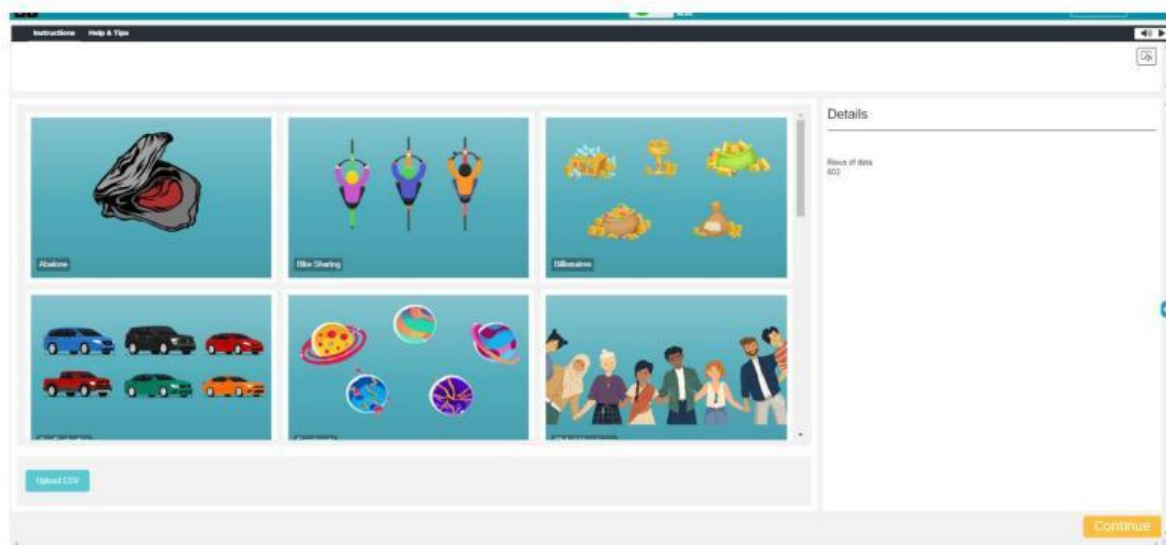
- ❖ Then 68 datasets related to dengue are displayed on the kaggle website.
- ❖ Among those datasets, the Dengue Prediction (Supervised) dataset is selected. Now click on that label.



- ❖ Now click on the Download button and download the dataset.
- ❖ Then a zip file will be downloaded. Extract that zip.
- ❖ Now go to AI and machine learning lab and upload that data set.



❖ Now click on the Continue button.



❖ Then the dataset we downloaded has been imported into AI and machine learning lab as follows.

Choose a column you would like to use as your label. This is the output that AI Bot will try to predict.
Do This: Select a column to use as a label, then press the Continue button.

Predict based on

serial	tempmax	tempmin	temp	humiditymax	humiditymin	humidity	dew	humidity	precip	precip
0	34.05156554891519	24.47585219175852	29.7636889138843	38.74758521917585	26.21758521917585	32.38858138888889	22.87121257871212	73.58521917585219	2.82157962738729	44.887534248
1	34.0881758521917585	25.09438894388943	29.4962734273427	41.338219175852	29.14938894388943	34.42357125712571	23.484524452445	72.0000000000000	3.78341463414634	39.83738873
2	34.0739857125712571	25.4778847125712571	29.52652502502502	40.4842734273427	26.58916259162591	33.88936893689369	22.88447844784478	69.42438243824382	3.98891688438891	33.33333333
3	33.82352323232323	25.88945784578458	29.7275427342737	37.87845784578	26.18348891488915	31.77235712571257	21.7823523232323	69.20738891788919	6.12525252525252	37.38573857
4	34.86891388913889	24.23889438894389	29.77478478478478	36.88891388913889	24.26341463414634	28.84388943889439	24.27435414634146	80.45232323232323	23.38889388913889	36.547847847
5	34.27847847847848	26.68912191219122	30.48389138891389	35.58891388913889	26.68912191219122	34.58891388913889	19.8278427342737	80.45232323232323	4.218891388913889	68.388913889
6	32.48916259162591	26.22871257125713	29.48674784784784	36.87847847847848	27.42189121912191	33.2188914834147	24.82438243824382	81.888738873888	6.34825252525252	46.341463414
7	34.23738873887389	26.58891388913889	29.84784784784784	41.3821917585219	26.57723571257125	34.58916259162591	24.53873889138891	74.3188121912191	8.888891388913889	54.471544715
8	34.48891388913889	25.58747847847848	29.78784784784784	38.48341463414634	24.44852342734273	32.88243889438894	21.48382323232323	87.31483414634146	4.877889178891789	41.788917889
9	34.78891388913889	23.58889438894389	29.18889438894389	36.18723571257125	23.58889438894389	28.11483414634146	24.88891388913889	88.38891388913889	11.587889178891789	81.888913889
10	34.68891388913889	22.18788917889179	28.34852342734273	33.58788917889179	23.58788917889179	26.22891388913889	21.488891388913889	76.77154471544716	66.75891625916259	73.88738873
11	36.78478478478478	26.14715447154472	31.46589138891389	37.42438243824382	27.42438243824382	32.75889138891389	24.84146341463415	82.8873887388739	25.58889438894389	75.847847847
12	32.32352323232323	25.81788917889179	29.27873187318732	40.78873887388739	26.58889438894389	33.84715447154472	20.88289438894389	84.28891388913889	8.11787318731873	58.888943889
13	28.87323232323232	21.23889438894389	24.8	36.38232323232323	21.23889438894389	25.28	18.31232323232323	73.8232323232323	0.488894388943889	54.288943889
14	28.87323232323232	21.23889438894389	24.8	36.38232323232323	21.23889438894389	25.28	18.31232323232323	73.8232323232323	0.488894388943889	54.288943889
15	48.1	28.1	32.8	44.8	28.1	32.2	18.7	38.9	7.7	7.7
16	41.2	28.4	33.3	43.1	28.4	35.9	18.8	47.8	52.8	52.8
17	37.7	28.8	33.1	48.8	28.8	36.3	20.4	58.7	8.7	8.7
18	37.2	24.8	30.7	41.8	24.8	33.8	23.1	87.8	48.1	48.1
19	38.8	25.2	31.5	41.8	25.2	35.1	23.4	91.8	9.8	9.8
20	37.8	25.1	30.4	42.1	25.1	33.8	23.8	88.8	18.8	18.8
21	36.8	25.4	30.4	44.2	25.4	34.2	23.4	88.8	7.7	7.7

There are 652 rows of data. (Showing first 100 rows)

Back Continue

❖ Now train the dataset as you want.