

Instructions:

- You will be using Kaggle to build a model for tackling the problem of stroke detection. Your goal is to get the highest score.
- If you do not have Kaggle account, create yours using the link: [SIGNUP](#)
- You can access the competition through the following link: [COMPETITION LINK](#)
- This is a private competition; please do not disclose the link.
- You may use Kaggle [Notebook](#) instead of Colab.

How do I start? The following steps require using python

1. Download the training and testing dataset files.
2. Use clustering algorithms (for example, kmeans) to group the digits. You may need to change the default parameters. You may need to transform the attributes.
<https://scikit-learn.org/stable/modules/classes.html#module-sklearn.cluster>
3. Create a data frame with two columns *ID* and *labels*. The *labels* is the predictions done in the previous step. Save the data frame in a csv file (for example *predictions.csv*).
4. Submit *predictions.csv* on kaggle and wait to see your score.
5. Take a look at the sample file (*submission.csv*) on Kaggle.

What should I submit on elearning? Submit the following two files:

1. Submit a report showing your Kaggle score for each classification model and parameters you used. You may create a table like the following:

model	parameters	Kaggle score
kmeans	K=2	0.6
kmeans	<i>init</i> = Kmeans++	0.7
DBscan	##	0.9

2. Upload the code that achieved the maximum score on elearning and Github (you must create a Github account, if you do not have one, and create a repository). Submit the repository URL on elearning.

What should do to get full mark?

1. Make sure your code is clean and free of bugs.
2. During the presentation, make sure you understand all the lines of your code.
3. Upload as many different submissions as you can. Keep in mind that the maximum number of submissions is 20 per day. Show the results of each submission in the report.
4. Get the highest score on the Leaderboard.

What should I do to get Zero?

Copy someone's code or report. All copies will get zero.