

Study the following four Python packages:

$$A = \begin{cases} \text{Keras} & \text{for deep learning} \\ \text{Bokeh} & \text{for visualisation} \end{cases}$$

$$B = \begin{cases} \text{PyTorch} & \text{for deep learning} \\ \text{Plotly} & \text{for visualisation} \end{cases}$$

Write a demonstration of its use on real data sets for each group A and B separately. Which means you need to do all analysis with Keras and plotting's with Bokeh, and also with a second dataset do the analysis with PyTorch and do the plotting s with Plotly.

Try to do various types of plotting with Bokeh and Plotly.

Searching for data sets

You can use any data set you like from any area of application. However, you should make sure it is rich enough to enable you to apply deep learning on them, and that you are allowed to share it with the class. You need two separate datasets for each group.

If you don't have one in mind, try looking at the following list:

<https://toolbox.google.com/datasetsearch>

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

<https://archive.ics.uci.edu/ml/datasets.html>

<https://skymind.ai/wiki/open-datasets>

<https://gengo.ai/datasets/the-50-best-free-datasets-for-machine-learning/>

<https://www.analyticsvidhya.com/blog/2018/03/comprehensive-collection-deep-learning-datasets/>

What you need to submit:

- a) A 7-page report (font 11) for each group A and B separately.
- b) Exchange datasets and see which one is preferable for a single dataset
- c) The .py of your coding for each group.
- d) Dataset in .csv