Tools and Software Data Science LAB Assignment no. 1 Group Work Due Date: 31/10/2023

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Objectives

This assignment aims to make students familiar with python programming and to begin the exploration process of a dataset.

Download and Read Data

Each group should deal with two datasets:

- 1. text data such as Subset of reuters dataset at https://paperswithcode.com/dataset/reuters-21578
- 2. Tabular data such as IRIS at https://archive.ics.uci.edu/ml/datasets/iris

Visualization

Notes

Marks are put on effort and trials so copied assignments will be penalized, so not delivering the assignment would be much better.

Tasks

For each dataset:

- 1. You should deliver a report which contains:
 - Explanation of the dataset attributes and details in a tabular form.
 - The visualization and with comments on them if available.
- 2. You should write your code in python and you may use scikit-learn, numpy, scipy or pyplot whenever needed.
- 3. It is preferred to use Google Colab in this sheet and any coding assignment.
- 4. Any further effort (more visualizations, analysis, etc.) will be appreciated.
- 5. Create csv file that contain the dissimilarity matrix