CSE 419L: LAB 08 Assignment: Compression Techniques

You have been given a dataset **(D1)**, which contains 1000 documents, distributed into 10 folders.

https://www.kaggle.com/datasets/jensenbaxter/10dataset-text-document-classification

Task 01:

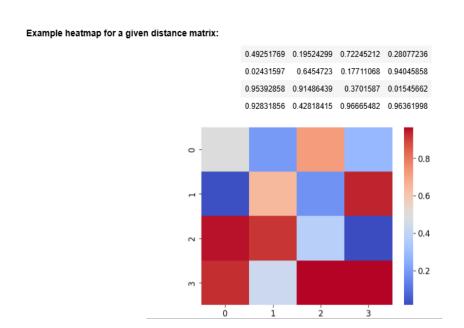
- 1. Read the Dataset.
- 2. Perform Text pre-processing steps.

Task 02:

- 1. Calculate TF for each term in each document.
- 2. Calculate IDF for each term in the vocabulary.
- 3. Create the TF-IDF matrix.

Task 03:

- 1. calculate cosine similarity of each document with all the other documents. Output will be a [1000 X 1000] matrix.
- 2. Generate the Heat map with help of similarity matrix calculated in the previous step.



Do not clear the outputs of the Notebook file. Output traces will be required for evaluation.