## Sitare University - Machine Learning

## Assignment 1

Due date: Feb 03, 2024 (Saturday)

The purpose of this exercise is to dive into the Bag Of Words (BOW) model. You'll need to install Python 3 (and packages like numpy, matplotlib, jupyter) before you begin. Here is how one might install numpy for instance:

\$ pip install numpy

We recommend, but not require, that you install <u>Anaconda</u> that installs both Python and the required packages. Click <u>here</u> or <u>here</u> to learn the difference between Anaconda and a bare minimum Python distribution.

After you are done installing the prerequisites, unzip the assignment file pa1.zip and run the jupyter notebook.

\$ jupyter notebook pal.ipynb

The notebook contains instructions on how you must proceed. Here is a useful summary: there are 15 action prompts; each action prompt is marked with a sequence number and the token **ACT**. Most of prompts are answerable in 5 lines of code or less:

This is, in fact, an answer to one of the prompts.

Any changes made to the notebook (the substitution of prompts, the output of execution) can be saved by selecting the appropriate option in the notebook toolbar.

Once you have completed all prompts and executed all cells, save the notebook. At this point, it'll contain your answers and the output produced. You're required to upload the file pa1.ipynb to GitHub and submit the link using this Google Form:

https://forms.gle/WEFTuWVJcthX6AST7