**Assignment 3**

1. Write a python code to implement unigram, bi-gram, and trigram probabilities

2. Write a python code to implement bag-of-words representation of text

3. Write a python code to implement tf-idf representation of text

4. Write a python code to implement one-hot encoding of text

**Note:**

1. Do not use in-built functions

2. Use the below text content as input to the code

**Input text:**

The best way to evaluate the performance of a language model is to embed it in an application and measure how much the application improves. Such end-to-end evaluation is called extrinsic evaluation. Extrinsic evaluation is the only way to know if a particular improvement in a component is really going to help the task at hand. Thus, for speech recognition, we can compare the performance of two language models by running the speech recognizer twice, once with each language model, and seeing which gives the more accurate transcription.

**Date of submission**: 13-03-2022

**Link to upload**:

<https://amritavishwavidyapeetham-my.sharepoint.com/:f:/g/personal/s_sachinkumar_cb_amrita_edu/EtCdsKK3wj1AsYWxtMAd9tMBGyb8vh1GxbPRnFQus6nX-w>