

Assignment-2L

Name:	-----
Registration # / Roll #	-----
Subject:	-----
Class with Section and Semester #	-----
Assigned Date	<u>15-04-2025</u>
Due Date	<u>22-04-2025</u>
Submission Date	-----
Total Marks	<u>20</u>
No Late Submission will be entertained at all.	

Upload the following

1. source code (py file)
2. Make a pdf for the code and screenshots of results
3. Add description paragraphs for each task (what was the task, how did you do that, what library functions have been used, what are results, and what is the **Execution Time**)
4. You may take help from NLP-Lab-04 material.

Questions

1. Implement one hot encoding for a dataset of **Consumer Review of Clothing Product**:
Given a dataset of product reviews consisting of text descriptions, implement a Python function that performs one hot encoding for the words in the reviews.
2. Develop a bag of words representation for a dataset of
 - Given a dataset of customer feedback consisting of text comments, create a bag of words representation for the feedback.
 - Preprocess the text data by removing stopwords, punctuation, and converting words to lowercase.
 - Build the bag of words representation by counting the frequency of each word in each feedback comment. [frequency count means how many times a word has been occurred in a document.]
 - Display the resulting bag of words matrix for analysis.
