

## **COMSATS** University Islamabad, Lahore Campus

Course Title:	Introducti	on to Da	ta Science		Course Code:	CSC461	Credit Hours:	3(3,0)
Resource Person:	Dr. Muha	mmad S	harjeel		Programme Name:	BSSE		
Semester:	5 <sup>th</sup>	Batch:	FA21	Section:	С	Max Marks:	10	

## HAMNA ASHRAF SP20-BSE-047

## **Assignment 4**

**Due Date: 11-12-2023** 

<u>Submission: Upload the assignment solution (PDF file and Python code, preferably iPython notebook) to your GitHub account (private repository).</u>

Important instructions: Please write the following information at the start of your ipython file.

# Date

# CSC461 – Assignment4 – NLP

# Your Full Name

# You Complete Registration Number #

A brief description of the task

## Important Instruction:

Solve the following questions manually as well as implement the solution using Python. Submit both.

- Q1. Compute BoW, TF, IDF, and then TF.IDF values for each term in the following three sentences.
  - S1: "data science is one of the most important courses in computer science"
  - S2: "this is one of the best data science courses"
  - S3: "the data scientists perform data analysis"
- Q2. Compute the similarity between S1, S2, and S3 using cosine, manhattan, and euclidean distances.

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