



## SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

## MID TERM EXAM SUMMER SEMESTER 2024-2025

SLOT:C1+TC1+C2+TC2

Programme Name & Branch

: M.TECH (SCOPE)

Course Code and Course Name

: CSI4004Text Mining

Faculty Name(s)

:Dr.Diviya.M, Dr.A.Sivaranjani

Class Number(s)

: VL2024250701092, VL2024250700202

**Date of Examination** 

: 09.06.2025

Exam Duration

: 90 minutes

Maximum Marks: 50

## General instruction(s):

## Answer All Questions

		Question		M	CO	BL
No	****					
1.	What is Named Enti	ty Recognition (NER)? Ex	xplain various NER approaches.	10	CO1	2
	Given the following sentence, identify and classify the named entities into					
	appropriate categorie	es such as Person, Organiz	ration, Location, Date, etc.			
	Sentence:					
	"Apple Inc. was founded by Steve Jobs, Steve Wozniak, and Ronald Wayne on					
/	April 1, 1976, in Cup	pertino, California."				
2,/	D1:The best Italian r	restaurant enjoy the best pa	asta	10	CO1	3
	D2:American restaurant enjoy the best hamburger					
	D3:Korean restaurant enjoy the best bibimbap					
	D4:th best the best American restaurant					
	Find the coherence a	across the three documents	using TF-IDF			
3.	A hospital wants to use medical data to diagnose patients. They have various				CO2	2
	patient characteristics like age, blood pressure, cholesterol levels, etc.					
	(i)Which feature selection method is useful for selecting categorical features					
	(e.g., smoking status, diagnosis history) associated with specific diseases.					
1	(ii) Which model can help identify the most important numerical features (e.g.,					
	A STATE OF THE PARTY OF THE PAR	most ini	portune numerical realtites (e.g.,			
	blood pressure, chol	lesterol levels) that are indi	cative of diseases.			
	blood pressure, chol	lesterol levels) that are indi	cative of diseases.			
4.	blood pressure, chol (iii) How would you	lesterol levels) that are indi	cative of diseases. and randomness in your dataset.	10	CO2	3
4.	blood pressure, chol	lesterol levels) that are indi	cative of diseases. and randomness in your dataset.	10	CO2	3
4.	blood pressure, chol (iii) How would you	lesterol levels) that are indi i measure the uncertainties	cative of diseases.	10	CO2	3
4.	blood pressure, chol (iii) How would you  Document	lesterol levels) that are indi i measure the uncertainties  Term 1 (T1)	cative of diseases. and randomness in your dataset.  Term 2 (T2)  0.1	10	CO2	3
1.	blood pressure, chol (iii) How would you  Document D1	lesterol levels) that are indi i measure the uncertainties  Term 1 (T1)  0.8	cative of diseases. and randomness in your dataset.  Term 2 (T2) 0.1 0.2	10	CO2	3
4.	blood pressure, chol (iii) How would you  Document D1 D2	lesterol levels) that are indi i measure the uncertainties  Term 1 (T1)  0.8  0.9	cative of diseases. and randomness in your dataset.  Term 2 (T2) 0.1 0.2 0.9	10	CO2	3
4.	blood pressure, chol (iii) How would you  Document D1 D2 D3	Term 1 (T1)  0.8  0.9  0.1	cative of diseases. and randomness in your dataset.  Term 2 (T2) 0.1 0.2	10	CO2	3
4.	blood pressure, chol (iii) How would you  Document D1 D2 D3 D4	Term 1 (T1)	cative of diseases. and randomness in your dataset.  Term 2 (T2)  0.1  0.2  0.9  0.8	10	CO2	3
4.	blood pressure, chol (iii) How would you  Document D1 D2 D3 D4  Use K means cluster	ring to cluster the docum	cative of diseases. and randomness in your dataset.  Term 2 (T2) 0.1 0.2 0.9 0.8  tents based on the given terms	10	CO2	3
4.	blood pressure, chol (iii) How would you  Document D1 D2 D3 D4  Use K means cluster	Term 1 (T1)	cative of diseases. and randomness in your dataset.  Term 2 (T2) 0.1 0.2 0.9 0.8  tents based on the given terms	10	CO2	3
<i>4.</i> 5.	blood pressure, chol (iii) How would you  Document D1 D2 D3 D4  Use K means cluste where k=2 with clus	ring to cluster the docum	cative of diseases. and randomness in your dataset.  Term 2 (T2) 0.1 0.2 0.9 0.8  Tents based on the given terms 1) and $C2 = (0.1, 0.9)$ .	10	CO2	3

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