



Plot No. 2, Knowledge Park-III, Greater Noida (U.P.) -201306

POST GRADUATE DIPLOMA IN MANAGEMENT (2022-24) END TERM EXAMINATION (TERM-V)

Subject Name	e: Text and Sentiment Analytics	Time: 02.00 hrs
Sub. Code:	PGIT52	Max Marks: 40

Note:

All questions are compulsory. Section A carries 5 marks: 5 questions of 1 marks each, Section B carries 21 marks having 3 questions (with internal choice question in each) of 7 marks each and Section C carries 14 marks one Case Study having 2 questions of 7 marks each.

<u>SECTION - A</u>			
Attempt all questions. All questions are compulsory. $1 \times 5 = 5$ Marks			
Questions	СО	Bloom's Level	
Q. 1: (A). What is the fundamental difference between "analytics" and "text	CO1	L2	
analytics"?	CO1	L2	
Q. 1: (B). Explain the concept of text representation in the context of natural	G G 1		
language processing.	C01	L2	
Q. 1: (C). Why is topic mining essential in data analysis?	CO1	L2	
Q. 1: (D). Discussing Part of Speech significance in understanding grammatical	001	1.0	
structures and semantic	CO1	L2	
Q. 1: (E). How sentiment analysis gives product feedback. SECTION – B			
All questions are compulsory (Each question have an internal choice. Attempt any one (eith B) from the internal choice) $7 \ge 3 = 21$ MarQuestions			
Questions	CO	Level	
Q. 2: (A). Explain Bigdata. What are its characteristics?			
Or	CO2	L3	
Q. 2: (B). Explain one hot encoding text representation with an example.			
Q. 3: (A). Describe the role of statistical language models in the context of topic mining, emphasizing their impact on understanding and extracting topics from large datasets.			
Or			
Q. 3: (B). Discuss the challenges associated with terms "topics" in topic mining, and propose potential solutions to address these challenges.	CO3	L3	
Q. 4: (A). Explain the challenges and techniques associated with extracting nuanced meanings from diverse forms of text, considering factors like context, ambiguity, and cultural variations.			
Or Q. 4: (B). Discuss the challenges associated with word sense ambiguity. Explain the Lexicon based Sentiment Analytics used for Tweet Analysis.	CO3	L4	
SECTION - C			

Read the case and answer the questions $7 \times 02 =$		14 Marks	
Questions	СО	Bloom's Level	
Q. 5: Case Study: Analyzing Zeiken Watches' Product Feedback on Social Med Zaimiene, a leader in the electronic products industry, has established a commendable market presence, as evidenced by the positive sentiments permeating social media discussions. These favorable sentiments likely stem from customer satisfaction, laudable reviews, and strategic marketing efforts, al of which contribute to Zaimiene's robust brand image. The term "robust" reflec the company's substantial impact and successful positioning as an influential entity within its sector. The analysis of these sentiments highlights Zaimiene's advantageous position relative to its competitors and underscores the company' effective market penetration and positive consumer reception, which are attributed to its focus on customer contentment and adept branding initiatives. Zaimiene's performs marketing campaigns on consumer perceptions of its electronic offerings. This method entails the examination of sentiments expressed in customer feedback and discussions across social media platforms following the company's latest marketing endeavors. By determining the prevailing sentiment—be it positive, negative, or neutral—Zaimiene can evalua the resonance of its campaigns with consumers. Predominantly positive sentiments suggest that the marketing strategies have been well-received, potentially enhancing the public image of Zaimiene's products. Conversely, negative sentiments may signal areas requiring improvement or issues warrantin attention. The insights gleaned from sentiment analysis are invaluable for Zaimiene to fine-tune its marketing approaches, bolster customer satisfaction, and remain agile in the ever-evolving consumer interactions with Zaimiene's products. A substantial number of likes on a social media post regarding a new product launch indicates a positive consumer response and potential advocacy. Conversely, an influx of comments offers a direct channel for consumer feedback, enabling Zaimiene to pinpoint elements that resonate well or ident	CO4	L5	
 Questions: Q. 5: (A). 1. What insights can be gained by conducting a comparative analysis of topic trends and sentiments with Zaimiene's competitors on social media? 2. How can Zaimiene leverage sentiment analysis to assess the impact of recent marketing campaigns on customer perceptions of its electronic products? Q. 5: (B). 1. What is the primary goal of conducting sentiment analysis on customer feedback for Zaimiene's electronic products on social media? 2. Explain the importance of evaluating customer engagement metrics, such as likes and comments, in understanding customer interactions with Zaimiene products. 			

Kindly fill the total marks allocated to each CO's in the table below:

COs	Marks Allocated
CO1	5 Marks
CO2	7 Marks
CO3	14 Marks
CO4	14 Marks

(Please ensure the conformity of the CO wise marks allocation as per your TLEP.)

Blooms Taxonomy Levels given below for your ready reference:

L1= Remembering L2= Understanding L3= Apply L4= Analyze L5= Evaluate L6= Create