Computer Science & Engineering AI & ML

BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)
B. Tech. Sem - VII CS&E-A&M : WINTER : 2024
SUBJECT: ITC-V: NATURAL LANGUAGE PROCESSING

Day : Wednesday
Date : 11/12/2024

W-23985-2024

Time : 02:30 PM-05:30 PM
Max. Marks : 60

N.B.

1) All questions are **COMPULSORY**.
2) Figures to the right indicate **FULL** marks.
3) Assume suitable data **WHEREVER** necessary.
4) Draw neat diagrams **WHEREVER** necessary.

Q. 1 Explain the importance and application of Natural language processing. **(10)**

OR

Q. 1 What are the techniques used for POS tagging in NLP. **(10)**

Q. 2 Explain Batlon-up parsing and tokenization with example. **(10)**

OR

Q. 2 What do you mean by text similarity used in NLP? Explain any one techniques used. **(10)**

Q. 3 Explain the Viterbi algorithm with an example and its significance. **(10)**

OR

Q. 3 Demonstrate Hidden Marrow Model with its application in processing natural languages. **(10)**

Q. 4 Explain shift reduce passer with suitable example. **(10)**

OR

Q. 4 Explain the context free grammar used in NLP with suitable example. **(10)**

Q. 5 Write detailed note on text summarization approaches used in NLP. **(10)**

OR

Q. 5 Explain in detail character lived ward level and sentence level embedding. **(10)**

Q. 6 What is Carpus? Explain its significance in developing NLP applications. **(10)**

OR

Q. 6 Discuss how gate is useful in managing linguistic data. **(10)**

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