Machine Learning

Data Pre Processing

Regression

Classification

Clustering

Reinforcement Learning

Natural Language Processing

Artificial Intelligence

QUIZ TOPIC - NATURAL LANGUAGE PROCESSING

1. **Natural Language processing is used in-**

   ○ A. Text classification

   ○ B. Topic modeling

   ○ C. Chatbots

   ◉ D. All of the above ✔

2. **Which of the follwing is an appication of NLP?**

   ○ A. Summarizing a text or article

   ○ B. Predicting the genre of books

   ○ C. Speech recognition

   ◉ D. All of the above ✔

3. **Which of the following library is used in NLP?**

   ○ A. NLTK

   ○ B. sklearn

   ○ C. pandas

   ◉ D. All of the above ✔

4. **What is tokenization?**

   ○ A. Breaking sentences into words

   ○ B. Creating a set of vocabularies

   ○ C. Removing stopwords

   ◉ D. All of the above ✔

5. **Why we use named entity recognition in NLP?**

   ◉ A. Classify entities into predefined labels ✔

   ○ B. Creating a set of vocabularies

   ○ C. Breaking sentences into words

   ○ D. None

6. **What is machine translation?**

   ○ A. Converting a human language to another

   ◉ B. Converting a human language to machine language ✔

   ○ C. Converting any human language to English

   ○ D. None

7. **Google translator is an application of-**

○ A. Sentiment analysis

○ B. Information extraction

○ C. Information retrieval

◉ D. Machine translation ✔

8. **Which of the following is the main challenge of NLP?**

○ A. Handling ambiguity of documents

○ B. Handling POS tagging

○ C. Handling tokenization

◉ D. All of the above ✔

9. **A bag of words model uses-**

○ A. A vocabulary of known words

○ B. A measure of the presence of known words

◉ C. Both A and B ✔

○ D. None

10. **Which of these techniques is used for normalization in text mining?**

○ A. Stemming

○ B. Stop words removal

○ C. Lemmatization

◉ D. All of the above ✔

11. **What stemming refers to in text mining?**

◉ A. Reducing a word to its root ✔

○ B. Defining the parts of speech of a word

○ C. Converting sentences to words

○ D. None

12. **Which is the correct order for preprocessing in Natural Language Processing?**

◉ A. tokenization->stemming->lemmatization ✔

○ B. lemmatization->tokenization->stemming

○ C. stemming->tokenization->lemmatization

○ D. None

13. **Bag of Words in text preprocessing is a-**

   ○ A. Feature scaling technique
   ◉ B. Feature extraction technique ✔
   ○ C. Feature selection technique
   ○ D. None

14. **In text mining, how the words 'lovely' is converted to 'love'-**

   ◉ A. By stemming ✔
   ○ B. By tokenization
   ○ C. By lemmatization
   ○ D. None

15. **Stop words are-**

   ○ A. words that frequently found in a document
   ○ B. words that have no use in prediction
   ○ C. words that are not important for text mining
   ◉ D. All of the above ✔

16. **Which of the following algorithms is widely used for text classification?**

   ○ A. Decision tree
   ○ B. Support vector machine
   ○ C. Naive Bayes
   ◉ D. All of the above ✔

17. **From the sentence "Ai Online Course", how many bigrams can be created?**

   ◉ A. 2 ✔
   ○ B. 3
   ○ C. 4
   ○ D. 5

18. **Sentiment analysis is an area of:**

   ○ A. Computer vision
   ◉ B. Natural language processing ✔
   ○ C. Data analysis
   ○ D. Data mining

19. **Which of the following is true about Topic Modelling?**

○ A. It's a natural language processing task

○ B. It is unsupervised learning

○ C. LDA(latent Dirichlet allocation) can be used ✖

🔘 D. All of the above ✔

20. **Which of the following is used to reduce the dimensionality of text data?**

○ A. Keyword Normalization

○ B. Latent Dirichlet Allocation

○ C. Latent Semantic Indexing

🔘 D. All of the above ✔

21. **What is the role of NLP in recommendation engines like Collaborative Filtering?**

○ A. Extracting features from text

○ B. Measuring semantic similarity

○ C. Constructing feature vector

🔘 D. All of the above ✔

22. **Which of the following is the feature of a text corpus?**

○ A. Count of the word

○ B. Part of speech tag

🔘 C. Both A and B ✔

○ D. None

23. **Word2vec is used to-**

🔘 A. Generate vectors out of words ✔

○ B. Represent a document numerically

○ C. Make a set of vocabularies

○ D. None

24. **tf - idf is used in-**

○ A. Sentiment analysis

○ B. Topic modeling

○ C. Text summarization

🔘 D. All of the above ✔

25. **Which of the following algorithm is not used in NLP?**

○ A. Naive Bayes

○ B. BERT

○ C. Convolutional Neural Networks

● D. None ✔

26. **Convolutional Neural Network is used in-**

○ A. Image classification

○ B. Text classification

○ C. Computer vision

● D. All of the above ✔

27. **tf - idf represents-**

○ A. How important a word is to a document in a collection or corpus

○ B. Where to find a word in a document

○ C. The length of a document

● D. All of the above ✔

28. **tf - idf is used in-**

○ A. Page ranking by search engines

○ B. Processing texts for ML models

● C. Both A and B ✔

○ D. None

29. **Sentiment analysis is used to-**

○ A. detect polarity of a text

○ B. detect the impact of a text

○ C. Both A and B ✖

● D. None ✔

30. **Which of the following is a kind of text summarization?**

○ A. Topic-based summarization ✖

● B. Extraction-based summarization ✔

○ C. History-based summarization

○ D. All of the above ✖

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