

1. What is the primary goal of text classification in NLP?

- A) To predict numerical data
- B) To classify images
- C) To categorize text into predefined labels
- D) To translate languages

2. Which technique is commonly used for spam detection?

- A) Object detection
- B) Text classification
- C) Speech synthesis
- D) Named entity recognition

3. Which of the following is NOT a preprocessing technique?

- A) Tokenization
- B) Stopword removal
- C) Compilation
- D) Lemmatization

4. What does TF-IDF stand for?

- A) Text Frequency–Inverted Document Flow
- B) Term Frequency–Inverse Document Frequency
- C) Total Frequency–Indexed Document Frequency
- D) Tokenized Form–Indexed Document Format

5. Which model assumes word independence?

- A) Naïve Bayes
- B) SVM
- C) K-Means
- D) Logistic Regression

6. Which Naïve Bayes variant is used for word counts?

- A) Gaussian
- B) Bernoulli
- C) Multinomial
- D) Logistic

7. Which algorithm finds the optimal hyperplane for classification?

- A) Naïve Bayes
- B) Decision Tree
- C) SVM
- D) K-NN

8. Which classifier works well with high-dimensional data?

- A) Decision Trees
- B) Random Forest
- C) SVM
- D) Naïve Bayes

9. What is the primary input for machine learning models in NLP?

- A) Images
- B) Raw text
- C) Numerical vectors
- D) Audio signals

10. Which feature extraction technique counts how often each word appears?

- A) TF-IDF
- B) Bag-of-Words
- C) GloVe
- D) FastText

11. Which metric gives the overall correctness of a model?

- A) Precision
- B) Recall
- C) F1-Score
- D) Accuracy

12. Which metric is most useful when false positives are costly?

- A) Recall
- B) Accuracy
- C) Precision
- D) Confusion matrix

13. Which metric balances precision and recall?

- A) F1-Score
- B) Accuracy
- C) Confusion Matrix
- D) Recall

14. What is the use of a confusion matrix?

- A) To calculate accuracy
- B) To visualize errors
- C) To split data
- D) To extract features

15. What type of classification assigns multiple labels to a text?

- A) Binary
- B) Multi-Class
- C) Multi-Label
- D) Hierarchical

16. Which deep learning model works well with sequence data?

- A) CNN
- B) RNN
- C) SVM
- D) Logistic Regression

17. Which model improves RNN's ability to remember long-term dependencies?

- A) Naïve Bayes
- B) CNN
- C) LSTM
- D) SVM

18. Which model captures local patterns in text like n-grams?

- A) CNN
- B) RNN
- C) LSTM
- D) SVM

19. Which model architecture uses attention mechanism and context?

- A) SVM
- B) Transformer
- C) Naïve Bayes
- D) CNN

20. Which library is commonly used for classical NLP in Python?

- A) PyTorch
- B) TensorFlow
- C) Scikit-learn
- D) Transformers

21. Which method captures meaning by subword units?

- A) Word2Vec
- B) GloVe
- C) FastText
- D) TF-IDF

22. Which model uses a count-based approach to generate embeddings?

- A) GloVe
- B) Word2Vec
- C) FastText
- D) BoW

23. Which model uses surrounding words to predict the center word?

- A) Skip-Gram
- B) CBOW
- C) TF-IDF
- D) BoW

24. Which technique works best on rare words?

- A) BoW
- B) CBOW
- C) Skip-Gram
- D) TF-IDF

25. What does the Naïve assumption refer to?

- A) Features are independent
- B) Data is balanced
- C) Words are clustered
- D) Data is continuous