

NLP Master Practice Test Questions and Answers

1. Which advanced technique is used to capture long-range dependencies in sequential data for NLP tasks?

- A) Recurrent Neural Networks (RNNs)
- B) Transformer architecture with self-attention
- C) Convolutional Neural Networks (CNNs)
- D) Naive Bayes classifiers

2. In advanced NLP, what is the purpose of the encoder-decoder architecture?

- A) To compress text data
- B) To perform sequence-to-sequence tasks like translation
- C) To reduce computational complexity
- D) To eliminate the need for preprocessing

3. Which technique is most effective for handling domain adaptation in NLP models?

- A) Data augmentation
- B) Transfer learning with pre-trained models
- C) Increasing model parameters
- D) Using larger datasets only

4. What is the key advantage of using contextualized word embeddings like BERT over static embeddings like Word2Vec?

- A) Faster training time
- B) Smaller model size
- C) Context-dependent word representations
- D) Lower computational requirements

Answers: 1-B 2-B 3-B 4-C

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