1. How do word embeddings capture semantic meaning in text preprocessing?
2. Explain the concept of recurrent neural networks (RNNs) and their role in text processing tasks.
3. What is the encoder-decoder concept, and how is it applied in tasks like machine translation or text summarization?
4. Discuss the advantages of attention-based mechanisms in text processing models.
5. Explain the concept of self-attention mechanism and its advantages in natural language processing.
6. What is the transformer architecture, and how does it improve upon traditional RNN-based models in text processing?
7. Describe the process of text generation using generative-based approaches.
8. What are some applications of generative-based approaches in text processing?
9. Discuss the challenges and techniques involved in building conversation AI systems.
10. How do you handle dialogue context and maintain coherence in conversation AI models?
11. Explain the concept of intent recognition in the context of conversation AI.
12. Discuss the advantages of using word embeddings in text preprocessing.
13. How do RNN-based techniques handle sequential information in text processing tasks?
14. What is the role of the encoder in the encoder-decoder architecture?
15. Explain the concept of attention-based mechanism and its significance in text processing.
16. How does self-attention mechanism capture dependencies between words in a text?
17. Discuss the advantages of the transformer architecture over traditional RNN-based models.
18. What are some applications of text generation using generative-based approaches?
19. How can generative models be applied in conversation AI systems?
20. Explain the concept of natural language understanding (NLU) in the context of conversation AI.
21. What are some challenges in building conversation AI systems for different languages or domains?
22. Discuss the role of word embeddings in sentiment analysis tasks.
23. How do RNN-based techniques handle long-term dependencies in text processing?
24. Explain the concept of sequence-to-sequence models in text processing tasks.
25. What is the significance of attention-based mechanisms in machine translation tasks?
26. Discuss the challenges and techniques involved in training generative-based models for text generation.
27. How can conversation AI systems be evaluated for their performance and effectiveness?
28. Explain the concept of transfer learning in the context of text preprocessing.
29. What are some challenges in implementing attention-based mechanisms in text processing models?
30. Discuss the role of conversation AI in enhancing user experiences and interactions on social media platforms.