

Generative AI and GPT Quiz

Question 1: What is the key difference between GPT's causal self-attention and BERT's bidirectional attention?

- a) GPT's attention mechanism considers both preceding and following tokens.
- b) GPT's attention mechanism only considers preceding tokens.
- c) BERT's attention mechanism only considers preceding tokens.
- d) BERT's attention mechanism considers both preceding and following tokens.

Question 2: In GPT's multi-head attention, what is the role of query, key, and value vectors?

- a) Query vectors weigh the importance of tokens, while key vectors capture relationships.
- b) Query vectors capture relationships, while key vectors weigh the importance of tokens.
- c) Both query and key vectors weigh the importance of tokens, while value vectors capture relationships.
- d) Query, key, and value vectors capture the relationship between tokens.

Question 3: How does GPT achieve contextual understanding in text generation?

- a) By memorizing common phrases and patterns
- b) By focusing only on the current sentence
- c) By considering relationships between words regardless of their distance
- d) By generating text sequentially without context

Question 4: What is the significance of positional embeddings in GPT's architecture?

- a) They define the positions of tokens in the input sequence.
- b) They replace the attention mechanism for better efficiency.
- c) They help the model focus on key tokens only.
- d) They remove the need for self-attention.

Answers:

1)b

2)a

3)c

4)a