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Q1	
5.0/5.0 points (graded) What is a "word embedding" in the context of NLP deep learning models? (Choose the best answer)	
A word that is found in a paragraph	
A vector that encodes a representation of a word such that similar words will have similar representations	
An algorithm that turns words into numbers	
A model that can translate one language into another	
✓	
Submit	
Q2 5.0/5.0 points (graded)	
The "Attention is All You Need!" paper introduced the Transformer architecture in 2017. What are some of the significant features of the architecture? (Che	ck all
that apply)	
RNNs are no longer required for sequence modeling in tasks such as NMT	
Fewer sequential operations result in greater parallelization when processing the model	
Relationships between words that are sequentially farther from each other can be encoded	
LSTM layers combined with self-attention layers create a robust parallel encoder	
Submit	
✓ Correct (5/5 points)	
Q3	
5/5 points (graded) What is the purpose of an "attention mechanism" in the Transformer architecture? (Choose the best answer)	
It sets an interrupt in the system when something important happens in an input sequence	
It is not used in the Transformer architecture	
It is a secondary model that periodically gets the "attention" of the primary model to provide additional information	
It looks at an input sequence and decides, at each step, which other parts of the sequence are important and encodes that information	
✓	
Submit	
✓ Correct (5/5 points)	
Q4	
5/5 points (graded) Which of the following are goals of deploying an NLP model to production on a system such as NVIDIA Triton Inference Server? (Check all that apply)	
Improve the accuracy of the deployed inference model	
✓ Faster throughput of inference via various optimizations	
Quickly training a new model in real time	
✓ Ability to run inference on multiple models simultaneously	
✓	
Submit	
A. Carract /F/F register)	
✓ Correct (5/5 points)	
Q5 E/E points (graded)	
5/5 points (graded) Which of the following is an example of post-training optimization? (Choose the best one)	
○ self-attention	
embedding	
quantization	
○ self-supervision	
•	
Submit	
✓ Correct (5/5 points)	
Q6	
5/5 points (graded) Which of the following model types are supported by Triton Server? (Check all that apply)	
✓ TensorRT	
✓ PyTorch	
✓ ONNX ZansorFlow	
✓ TensorFlow Custom Backends	
✓ Custom Backends	
Submit	

Questions

✓ Correct (5/5 points)