



Google Cloud Computing

(Jul-Oct 2024)

Assignment- Week 8

TYPE OF QUESTION: MCQ/MSQ

Number of questions: 10

Total mark: 10 X 1 = 10

QUESTION 1:

Variables in TensorFlow are also known as _____

- a) tensor variable
- b) tensor keywords
- c) tensor attributes
- d) tensor objects

Correct Answer: (d)

Detailed Solution: Variables in TensorFlow are also known as tensor objects. These objects hold the values which can be modified during the execution of the program.

QUESTION 2:

What is the full form of XLA in TensorFlow?

- a) Xtreme Linear Algebra
- b) Accelerated Linear Algebra
- c) Unknown Linear Algebra
- d) X Linear Algebra

Correct Answer: (b)

Detailed Solution: XLA (Accelerated Linear Algebra) is a domain-specific compiler for linear algebra that can accelerate TensorFlow models with potentially no source code changes.

QUESTION 3:

The last layer of deep neural network is called the _____

- a) hidden layer
- b) output layer
- c) input layer
- d) none of the above

Correct Answer: (b)

Detailed Solution: The first layer is called the Input Layer. The last layer is called the Output Layer. All layers in between are called Hidden Layers.



QUESTION 4:

Which of the following is NOT a feature of Cloud Vision API?

- a) Detecting objects in an image
- b) Analyzing text in an image
- c) Translating text in an image
- d) Converting audio into text

Correct Answer: (d)

Detailed Solution: Cloud Vision API does not support converting audio into text. This feature is provided by the Cloud Speech API.

QUESTION 5:

What is the purpose of sentiment analysis in natural language processing?

- a) To identify the author of a text
- b) To determine the tone or emotion expressed in a text
- c) To translate a text from one language to another
- d) To summarize the main points of a text

Correct Answer: (b)

Detailed Solution: Sentiment analysis is a NLP task that involves analyzing a text to determine the overall tone or emotion expressed, such as positive, negative, or neutral

QUESTION 6:

Which GCP service enables scalable and distributed training of ML models using TensorFlow?

- a) Google Cloud Dataflow
- b) Google Cloud Pub/Sub
- c) Google Cloud BigQuery
- d) Google Cloud ML Engine

Correct Answer: (d)

Detailed Solution: Google Cloud ML Engine is the GCP service that enables scalable and distributed training of ML models using TensorFlow, an open-source machine learning framework.

QUESTION 7:

What is the purpose of TensorFlow's eager execution mode?

- a) To enable dynamic graph construction and execution
- b) To enable distributed training across multiple GPUs
- c) To optimize memory usage during model training
- d) To provide a high-level API for building ML models

Correct Answer: (a)



Detailed Solution: TensorFlow's eager execution mode is a feature that allows for immediate evaluation and execution of operations in TensorFlow without explicitly building a static computational graph. In the traditional TensorFlow workflow, users would define a graph of operations and then execute the graph in a separate session.

QUESTION 8:

Cloud AutoML is a suite of _____ services offered by Google Cloud Platform.

- a) Machine learning
- b) Data analytics
- c) Big data
- d) Cloud computing

Correct Answer: (a)

Detailed Solution: Cloud AutoML is a suite of machine learning services provided by Google Cloud Platform (GCP). It offers a range of services and tools that enable users to build and deploy custom machine learning models without requiring extensive expertise in machine learning or programming.

QUESTION 9:

Fill in the blanks: Machine learning is a way to use standard _____ to derive _____ insights from data and make repeated decisions.

- a) intelligence, technical
- b) techniques, intelligent
- c) predictions, algorithmic
- d) algorithms, predictive

Correct Answer: (d)

Detailed Solution: As per the definition, machine learning is a way to use standard algorithms to derive predictive insights from data and make repeated decisions

QUESTION 10:

Statement 1: Artificial intelligence is a subarea of machine learning

Statement 2: Deep learning is a special type of machine learning

Please select the correct option.

- a) Only Statement 1 is true
- b) Only Statement 2 is true
- c) Both Statement 1 and 2 are true
- d) Both Statement 1 and 2 are false

Correct Answer: (b)

Detailed Solution: Machine learning is a subarea of AI and deep learning is a special type of



machine learning technique

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