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QUESTION 1

Which factor of a Waterfall\\' approach is most likely to result in the failed delivery of an AI project?

A. Takes longer to deliver all functional requirements.

B. Discourages collaboration and cross boundary communication.

C. Takes longer to complete the design phase of the project.

D. Discourages revisiting and revising any prior phase once it is complete.

Correct Answer: D

The Waterfall approach is a sequential design process in which each phase of development must be completed before the next phase can begin. This means that once a phase is complete, it is difficult to go back and make changes, as any

changes made to the project could potentially affect all the other phases. As a result, the Waterfall approach can make it difficult to adapt to changing customer requirements or adjust to new technology. This can ultimately lead to the failed

delivery of an AI project.

References:

[1] BCS Foundation Certificate In Artificial Intelligence Study Guide, Page number 19

[2] APMG International, "What is a Waterfall Model?", https://apmg-international.com/en/blog/what-is-a-waterfall-model/

[3] EXIN, "What is the Waterfall Model?", https://www.exin.com/blog/what-is-the-waterfall-model/

QUESTION 2

In the 1800\\'s the development of statistics led to_____theorem and is used in probabilistic inference. (Select the missing word.)

A. Boltzmann\\'s

B. Kolmogorov\\'s

C. Bayes\\'

D. The central limit

Correct Answer: C

The development of statistics in the 1800s led to the development of the Bayes\\' theorem, named after Reverend Thomas Bayes. This theorem is used in probabilistic inference, which is the process of using data to calculate the likelihood of a

hypothesis or outcome. The theorem is used for determining the probability of an event occurring given its prior probability, as well as its associated conditions. The Bayes\\' theorem is also used in a variety of fields, such as machine learning,

artificial intelligence, economics, and medical research. Sources:

BCS Foundation Certificate In Artificial Intelligence Study Guide: https://www.bcs.org/category/18071

APMG International: https://www.apmg-international.com/en/qualifications/qualification-resources/bcs-foundation-certificate-in-artificial-intelligence/

EXIN: https://www.exin.com/en/certification/bcs-foundation-certificate-in-artificial- intelligence

QUESTION 3

A vector in vector calculus is a quantity that has magnitude and direction.

What is a vector in computer programming?

A. An array with one dimension.

B. A two-dimensional array of scalars.

C. An array of complex numbers

D. A constant

Correct Answer: A

In computer programming, a vector is a data structure that contains a collection of elements that are all of the same type. Each element in the vector has an associated index, which can be used to access and modify the element at that index.

Vectors are commonly used to store collections of numerical values (e.g., integers or floating-point numbers) or strings, but they can also be used to store any type of data.

References:

[1] BCS Foundation Certificate In Artificial Intelligence Study Guide, Page number 36

[2] APMG International, "What is a Vector in Computer Programming?", https://apmg-international.com/en/blog/what-is-a-vector-in-computer-programming/

[3] EXIN, "What is a Vector in Computer Programming?", https://www.exin.com/blog/what-is-a-vector-in-computer-programming/

QUESTION 4

In Machine learning what are a brain\\'s axons called?

A. Dendrites

B. Edges

C. Tetrahedra.

D. Nodes

Correct Answer: D

In Machine Learning, the brain\\'s axons are referred to as nodes. Nodes are the components of a neural network that are responsible for processing the input data and generating the output. A node is a mathematical function that takes input data, performs a computation on it, and produces an output. Each node is connected to other nodes in the network via edges, which represent the strength of the connection between the respective nodes. The strength of the connection between two nodes is determined by the weights assigned to each edge. The weights are adjusted during the training process to generate the desired results. For more information, please refer to the BCS Foundation Certificate In Artificial Intelligence Study Guide (https://www.bcs.org/upload/pdf/bcs-foundation-certificate-in-artificial-intelligence-study-guide.pdf) or the EXIN Artificial Intelligence Foundation Certification (https://www.exin.com/en/exams/artificial-intelligence-foundation).

QUESTION 5

Human-centric trustworthy Al must be...

A. quality assurance certified.

B. continually assessed and monitored.

C. financially sustainable.

D. tested by humans.

Correct Answer: B

Human-centric trustworthy Al must be continually assessed and monitored in order to ensure that it is behaving in a safe and ethical manner. This includes conducting regular tests and audits to ensure that the Al is functioning as intended, and is not taking any actions or decisions that could potentially harm humans or their environment. References: BCS Foundation Certificate In Artificial Intelligence Study Guide, https://bcs.org/ai/certificate/ and APMG International, https://www.apmg-international.com/qualifications/artificial-intelligence-foundation-certificate.