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QUESTION 1

What function is used in a Neural Network?

- A. Linear.
- B. Activation.
- C. Statistical.
- D. Trigonometric.

Correct Answer: B

Activation Functions An activation function in a neural network defines how the weighted sum of the input is transformed into an output from a node or nodes in a layer of the network. <https://machinelearningmastery.com/choose-an-activation-function-for-deeplearning/#:~:text=An%20activation%20function%20in%20a,a%20layer%20of%20the%20ne%20network>. An activation function is a mathematical function used in a neural network to determine the output of a neuron. Activation functions are used to transform the inputs into an output signal and can range from simple linear functions to complex non-linear functions. Activation functions are an important part of neural networks and help the network learn patterns and generalize data. Types of activation functions include sigmoid, ReLU, tanh, and softmax. References: BCS Foundation Certificate In Artificial Intelligence Study Guide, <https://bcs.org/certifications/foundation-certificates/artificial-intelligence/>

QUESTION 2

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 3

Who was the pioneer of computer programming?

- A. Dame Wendy Hall.
- B. Karen Spark Jones.
- C. Ada Lovelace.
- D. Sophie Wilson

Correct Answer: C

<https://www.techopedia.com/2/31564/watercooler/ada-lovelace-enchantress-of-numbers>

Ada Lovelace was an English mathematician and writer who is widely credited as the pioneer of computer programming. In 1842, she wrote an article in which she outlined the fundamental principles of computing, making her the first person

to recognize the potential of computers and to describe algorithms that could be used to program them. Her work laid the basis for modern computing and is recognized as one of the most significant contributions to the field of computing.

References:

<https://www.bcs.org/more/certifications/foundation-certificate-in-artificial-intelligence/>

<https://www.apmg-international.com/en-gb/courses/computing-and-programming/computing-and-programming-foundation-and-certification/>

QUESTION 4

What term do computer scientists and economists use to describe how happy an agent is?

- A. Index.
- B. Warm.
- C. Return
- D. Utility.

Correct Answer: D

<https://griffinshare.fontbonne.edu/cgi/viewcontent.cgi?article=1008&context=ijds>

Computer scientists and economists use the term "utility" to describe how happy an agent is. Utility is a measure of satisfaction or preference, and it is used to evaluate an agent's satisfaction with a particular outcome. Utility can be used to

determine the optimal decision or action for an agent to take in order to maximize its satisfaction.

References:

[1] BCS Foundation Certificate In Artificial Intelligence Study Guide, "Decision Making and Planning", p.99-100.

[2] APMG-International.com, "Foundations of Artificial Intelligence"

[3] EXIN.com, "Foundations of Artificial Intelligence"

QUESTION 5

Human-centric trustworthy AI must be...

- A. quality assurance certified.
- B. continually assessed and monitored.
- C. financially sustainable.
- D. tested by humans.

Correct Answer: B

Human-centric trustworthy AI 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 AI 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>.

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