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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

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 3

In an AI project the domain expert is the person...

A. with technical and managerial oversight of the business plan

B. who manages the agile project and writes the technical terms of reference

C. who measures the trustworthiness of the AI system

D. with special knowledge or skills in the area of endeavour and defines what is fit for purpose\\'

Correct Answer: D

In an AI project, a domain expert is a person with special knowledge or skills in that particular area of endeavour, and they are responsible for defining what is "fit for purpose" for the project. The domain expert provides insights into the

problem and suggests ways to address it. They also provide guidance on evaluating and validating the AI system and its outputs. The domain expert is also responsible for communicating with stakeholders and providing feedback on the

progress of the project.

References:

BCS Foundation Certificate In Artificial Intelligence Study Guide (2019), AI and People, Chapter 12.

https://www.apmg-international.com/en/ai-adoption/domain-expert/

QUESTION 4

Healthcare can benefit from AI, and in particular Machine Learning, an example of which is?

A. Autonomous wheelchairs.

B. Automated blood sampling.

C. Autonomous vehicles.

D. Diagnostic image analysis

Correct Answer: D

Healthcare can benefit from AI, and in particular Machine Learning, in a number of ways. One example is diagnostic

image analysis, which can help to automatically identify and classify abnormalities in medical images such as X-rays, CT scans, and MRI scans. Machine Learning algorithms can be used to detect patterns in the data which can be used to accurately diagnose diseases and illnesses.

References:

[1] https://www.bcs.org/upload/pdf/foundation-certificate-ai-syllabus-v1.pdf

[2] https://www.apmg-international.com/en/qualifications-and-certifications/bc-foundation-certificate-in-artificial-intelligence/

[3] https://www.exin.com/en/certifications/bc-foundation-certificate-in-artificial-intelligence/

[4] https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3859976/

QUESTION 5

The EU and United Nations have made designing for all individuals a core principle. What is this type of design called?

A. Core design

B. Universal design.

C. Biophilic design.

D. Utopic design.

Correct Answer: B

https://universaldesign.ie/What-is-Universal-Design/ Universal design is a type of design that takes into account the needs of all individuals, regardless of age, ability, or physical condition. It is a principle that is embraced by the European

Union and the United Nations, and it is based on the idea that products, services, and environments should be designed to be usable by the widest range of people possible. Universal design emphasizes accessibility, usability, and inclusivity,

and it is often used to create products and services that are easy to use for people of all ages and abilities.

References:

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

https://www.apmg-international.com/en-gb/courses/universal-design/universal-design-foundation-and-certification/