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QUESTION 1

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 2

Sustainability focuses on which three core areas?

A. Scientific, Environmental and Economic.

B. Social, Economic and Environmental.

C. Social, Economic and Entrepreneurial.

D. Social, Entrepreneurial and Environmental.

Correct Answer: B

The term sustainability is broadly used to indicate programs, initiatives and actions aimed at the preservation of a particular resource. However, it actually refers to four distinct areas: human, social, economic and environmental ?known as the

four pillars of sustainability.

https://www.futurelearn.com/info/courses/sustainable-business/0/steps/78337#:~:text=However%2C%20it%20actually%20refers%20to,the%20four%20pillars%20of%20sustainability.andtext=Human%20sustainability%20aims%20to%20maintain%20and%20improve%20the%20human%20capital%20in%20society. Sustainability focuses on these three core areas because they all have an impact on the environment and society. Social sustainability is concerned with the

relationships between people and how to create a society that is equitable and fair for all members. Economic sustainability focuses on the creation of a viable economic system that provides for the needs of the present without compromising

the ability of future generations to meet their own needs. Environmental sustainability focuses on protecting natural resources, ecosystems and habitats, and minimizing the impact of human activities on the environment.

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

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

QUESTION 3

Ensemble learning methods do what with the hypothesis space?

A. Select a combination of hypothesis to combine their predictions

B. Use stochastic gradient descent to optimise a network.

C. Extract ergodic solutions.

D. Test multiple hypotheses simultaneously.

Correct Answer: A

https://link.springer.com/referenceworkentry/10.1007/978-0-387-73003-5_293#:~:text=Definition,and%20combine%20them%20to%20use. It works by selecting different subsets of the data, or different combinations of the hypothesis, and

combining the results of each prediction in order to create a single, more accurate result. This is useful in situations where different hypothesis may be accurate in different parts of the data, or where a single hypothesis may not be accurate in

all cases. Ensemble learning is used in a variety of applications, from computer vision to natural language processing.

References:

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

[2] Apmg-international.com, "What is Ensemble Learning?", APMG International, https://apmg-international.com/en/about-apmg/blog/what-is-ensemble-learning/

[3] Exin.com, "Ensemble Learning", EXIN, https://www.exin.com/en-us/learn/ensemble-learning

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QUESTION 4

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/

QUESTION 5

The EU\\'s Ethical Guidelines use what to demonstrate trustworthy AI?

A. A quality assurance plan.

B. UN\\'s sustainability goals.

C. Customer feedback.

D. A human-centric value system.

Correct Answer: D

The European Union\\'s Ethical Guidelines for Trustworthy AI use a human- centric value system to demonstrate that Artificial Intelligence (AI) is trustworthy. This value system is based on human rights, autonomy, safety, privacy, transparency,

accountability and fairness. The guidelines also state that AI should be designed, developed and used in a manner that respects these values.

References:

https://ec.europa.eu/digital-single-market/en/news/ethical-guidelines-trustworthy-ai

BCS Foundation Certificate In Artificial Intelligence Study Guide (2019), A.I and Ethics, Chapter 5.

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