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QUESTION 1

The Scrum Master is part of which team?

- A. Software development team.
- B. Data preparation team
- C. Agile project team.
- D. Management team

Correct Answer: C

<https://www.techtarget.com/whatis/definition/scrum-master#:~:text=A%20Scrum%20Master%20is%20a,in%20accordance%20with%20Agile%20principles.>

The Scrum Master is part of the agile project team, and is responsible for ensuring that the team is following the Scrum process. The Scrum Master is the facilitator of the team, ensuring that the team is working together and following the Scrum principles. They are also responsible for protecting the team from any external influences and helping resolve any issues that may arise.

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.scrumguides.org/scrum-guide.html>

QUESTION 2

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>

QUESTION 3

What are monotonous and repetitive tasks, that require accuracy BEST suited to?

- A. Human plus machine.
- B. Machine.
- C. Human.
- D. Artificial General Intelligence.

Correct Answer: B

Monotonous and repetitive tasks that require accuracy are best suited to machines. Machines are able to accurately and quickly perform tasks that require little to no creativity, such as data entry or image recognition. This is because machines are able to process large amounts of data quickly and accurately, and are less likely to make mistakes than humans. Additionally, machines are able to process large amounts of data without becoming bored or distracted, making them ideal for tasks that require consistent accuracy. For more information, please see the BCS Foundation Certificate In Artificial Intelligence Study Guide or the resources listed above. Search results: BCS Foundation Certificate in Artificial Intelligence Study Guide, Chapter 4: Machine Learning: <https://www.bcs.org/category/19669>

QUESTION 4

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 5

Which of the following is an advantage of a machine based system?

- A. Able to judge ambiguous and unknown situations.
- B. Capable of sympathising with humans.
- C. Undertakes monotonous tasks reliably and accurately.
- D. Can explain the output of an AI system

Correct Answer: C

One of the main advantages of a machine-based system is its ability to reliably and accurately undertake monotonous and repetitive tasks. This is especially useful for tasks that require a high level of accuracy and precision, such as data

entry or analysis. Machine-based systems are also able to process large amounts of data quickly, meaning that they are able to complete tasks more quickly and efficiently than humans. Additionally, machine-based systems can be

programmed to take certain decisions and actions based on the input data, allowing them to automate certain processes without the need for human intervention.

References:

BCS Foundation Certificate In Artificial Intelligence Study Guide (2019), AI Systems, Chapter 8. <https://www.apmg-international.com/en/al-adoption/advantages-of-al/>

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