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QUESTION 1

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 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

Tensor flow is a typical open source what?

- A. Cloud based AI application.
- B. Intelligent robot paradigm.
- C. Machine learning library.
- D. Agent based modelling application

Correct Answer: C

TensorFlow is an end-to-end open source platform for machine learning. It has a comprehensive, flexible ecosystem of tools, libraries and community resources that lets researchers push the state-of-the-art in ML and developers easily build

and deploy ML powered applications.

<https://www.tensorflow.org/#:~:text=TensorFlow%20is%20an%20end%2Dto,and%20deploy%20ML%20powered%20applications>.

TensorFlow is an open source machine learning library created by Google. It is used for dataflow programming and is widely used for a variety of applications, including machine learning and deep learning. TensorFlow enables developers to

build, train and deploy machine learning models easily and quickly. It has built-in support for a variety of deep learning frameworks, such as convolutional neural networks, recurrent neural networks, and autoencoders.

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 4

What is defined as a machine that can carry out a complex series of tasks automatically?

- A. A robot
- B. A production line.
- C. A computer.
- D. An autonomous vehicle.

Correct Answer: C

A computer is defined as a machine that can carry out a complex series of tasks automatically. Computers are used in a variety of applications, including artificial intelligence (AI), robotics, production lines, and autonomous vehicles.

Computers are able to carry out complex tasks thanks to their ability to process large amounts of data quickly and accurately.

For more information, please refer to the BCS Foundation Certificate in Artificial Intelligence Study Guide: <https://www.bcs.org/category/18076/bcs-foundation-certificate-in-artificial-intelligence-study-guide>.

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://www.bcs.org/ai/certificate/> and APMG International, <https://www.apmg-international.com/qualifications/artificial-intelligence-foundation-certificate>.

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