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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

Reflex and Model-based Reflex are two types of what?

- A. Robot
- B. Artificial intelligent agents.
- C. Algorithms.
- D. Compilers.

Correct Answer: B

Reflex and Model-based Reflex are two types of Artificial Intelligent Agents. Artificial Intelligent Agents are computer systems designed to act and think in a manner similar to humans, incorporating elements of problem solving, decision-making, communication, and learning. Reflex agents are reactive agents which act based on the current environment and conditions, while Model-based Reflex agents use a model of the environment to make decisions.

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>.

QUESTION 4

From the EIU's ethics guidelines for AI, what does 'The Principle of Autonomy' mean?

- A. Robots will have freewill.
- B. AI agents will behave as humans.
- C. AI systems will be human-centric
- D. AI systems will preserve human agency.



Correct Answer: D

The Principle of Autonomy from the ELL's ethics guidelines for AI states that AI systems should be designed in a way that preserves human agency and responsibility. This means that AI systems should be designed in a way that allows humans to remain in control of their decisions, and that the AI system should not be able to act without human input or permission. 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>.

QUESTION 5

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"

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