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QUESTION 1

With a large dataset, limited computational resources or frequent new data to learn from, we can adopt what type of machine learning?

- A. Batch learning.
- B. Big Data learning.
- C. Patchwork learning.
- D. Online learning.

Correct Answer: D

Online learning is a type of machine learning that can be used when a large dataset is limited in computational resources or if the data is frequently changing. It allows the system to learn from new data as it is being presented, rather than having to re-train the entire dataset each time new data is added. This makes it more efficient and effective than batch learning, as it only needs to process the new data and not the entire dataset. Online learning is often used in applications such as fraud detection, where new data is constantly being added and needs to be analyzed quickly. 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 2

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 3

What does TRL stand for?

- A. Technical Robotic Level.
- B. Transform Reinforced Learning
- C. Technology Readiness Level.
- D. Transport Ready Level.

Correct Answer: C

Technology Readiness Level (TRL) Technology Readiness Levels (TRL) are a method of estimating the technology maturity of Critical Technology Elements (CTE) of a program during the acquisition process.

[https://acqnotes.com/acqnote/tasks/technology-readiness-level#:~:text=Technology%20Development,Technology%20Readiness%20Level%20\(TRL\),program%20during%20the%20acquisition%20process.](https://acqnotes.com/acqnote/tasks/technology-readiness-level#:~:text=Technology%20Development,Technology%20Readiness%20Level%20(TRL),program%20during%20the%20acquisition%20process.)

TRL stands for Technology Readiness Level and is a measure of how close a technology is to being ready for use in a real-world environment. TRL is used to assess the progress of research and development of a technology, ranging from basic research (TRL 1) to fully operational (TRL 9). TRL is used to help determine the level of completion of a technology and its potential success in a real-world environment.

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.acq.osd.mil/rd/nii/trl.html>

QUESTION 4

In Machine learning what are a brain's axons called?

- A. Dendrites
- B. Edges
- C. Tetrahedra.
- D. Nodes

Correct Answer: D

In Machine Learning, the brain's axons are referred to as nodes. Nodes are the components of a neural network that are responsible for processing the input data and generating the output. A node is a mathematical function that takes



input data, performs a computation on it, and produces an output. Each node is connected to other nodes in the network via edges, which represent the strength of the connection between the respective nodes. The strength of the connection between two nodes is determined by the weights assigned to each edge. The weights are adjusted during the training process to generate the desired results. 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 5

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>

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