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QUESTION 1

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 2

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 3

What is one of the MAIN contributions of AI to the rapid development of The Fourth Industrial Revolution?

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A. Enhanced design.

B. Automation

C. Big Data

D. AI personal assistants.

Correct Answer: B

https://research.com/careers/what-is-the-fourth-industrial-revolution Artificial Intelligence (AI) is playing a major role in
the rapid development of the Fourth Industrial Revolution. AI technologies are enabling the automation of many
processes

that were previously carried out by humans or machines, which has greatly increased the speed, efficiency, and
accuracy of these processes. Automation is one of the main contributions of AI to the Fourth Industrial Revolution, as it
has

greatly increased the productivity of businesses and industries, while reducing the cost of production and improving the
quality of products.

References:

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

https://www.apmg-international.com/en-gb/courses/fourth-industrial-revolution/fourth-industrial-revolution-foundation-
and-certification/

QUESTION 4

Professor David Chalmers described consciousness as having two questions. What were these?

A. An easy one and a hard one.

B. What is the sub conscious and what is the conscious?

C. Can we integrate our knowledge to form consciousness and can we simulate consciousness?

D. Are only humans conscious and are machines always unconscious?

Correct Answer: B

Professor David Chalmers described consciousness as having two questions: "What is it like to be conscious?" and
"Can machines be conscious?". The first question, "What is it like to be conscious?", is an attempt to understand what it
is like to experience the subjective aspects of consciousness, such as feeling, emotion, and perception. The second
question, "Can machines be conscious?", is an attempt to understand whether or not machines can have the same
kinds of subjective experiences as humans. For more information, please see the BCS Foundation Certificate In
Artificial Intelligence Study Guide or the resources listed above.

QUESTION 5

Tensor flow is a typical open source what?

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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 6

What is an intelligent robot?

A. A robot that has consciousness

B. A robot that acts like a human.

C. A robot that uses AI techniques.

D. A robot that takes the place of a human.

Correct Answer: C

An intelligent robot is one that uses AI techniques, such as machine learning and natural language processing, to perceive, plan and act on its environment. Intelligent robots are able to process large amounts of data quickly and accurately, allowing them to make decisions and carry out tasks autonomously. Intelligent robots can be used in a variety of applications, from industrial automation to healthcare.

QUESTION 7

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How could machine learning make a robot autonomous?

A. Use OCR, optical character recognition, to read documents

B. Use NLP (Natural Language Processing) to listen

C. Use actuators to modify its environment

D. Learn from sensor data and plan to carry out a task.

Correct Answer: D

Machine learning can be used to make robots autonomous by allowing them to learn from sensor data and plan how to carry out a task. This involves using algorithms to analyze data from sensors and use this data to make decisions and

take actions. By using machine learning, robots can learn from their environment and become more autonomous.

References:

[1] BCS Foundation Certificate In Artificial Intelligence Study Guide, "Robotics", p.98.

[2] APMG-International.com, "Foundations of Artificial Intelligence"

[3] EXIN.com, "Foundations of Artificial Intelligence"

QUESTION 8

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%20 Readiness%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

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[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 9

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.

QUESTION 10

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%20m

aintain%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/

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