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QUESTION 1

Para View allows large data sets to be visualised on a parallel computer.

Which of the following is one of the techniques used?

A. Norm calculation.

B. Dashboard.

C. Contour plot

D. Eigen function analysis.

Correct Answer: C

ParaView is an open-source, multi-platform visualization application that allows large data sets to be visualized on a parallel computer. ParaView uses a variety of techniques to visualize data, including contour plots, which are useful for

visualizing 3D data sets. Contour plots are created by plotting a set of curves connecting points of equal value, with each curve representing a particular value. This allows 3D data sets to be visualized in a 2D format, making it easier to

understand the data.

References:

[1] BCS Foundation Certificate In Artificial Intelligence Study Guide, Page number 19

[2] APMG International, "What is ParaView?", https://apmg- international.com/en/blog/what-is-paraview/

[3] EXIN, "What is ParaView?", https://www.exin.com/blog/what-is-paraview/

QUESTION 2

Splitting data into Training and Test data sets is part of what?

A. Machine learning data preparation.

B. Batch learning.

C. Machine learning post processing.

D. High performance computing strategy.

Correct Answer: A

Splitting data into training and test data sets is an important step in the machine learning data preparation process. This process involves splitting the data into subsets, usually in a 70:30 ratio, to create a training set and a test set. The training set is used to train the machine learning model, while the test set is used to evaluate the model\\'s performance. This process allows for the model to be tested and evaluated on data that it has not seen before, in order to ensure that it is accurate and able to generalize to new data. References: BCS Foundation Certificate In Artificial Intelligence Study Guide, https://bcs.org/certifications/foundation-certificates/artificial-intelligence/

QUESTION 3

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 Al 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/

QUESTION 4

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

A. Enhanced design.

B. Automation

C. Big Data

D. Al 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 5

In an Al project the domain expert is the person...

A. with technical and managerial oversight of the business plan

B. who manages the agile project and writes the technical terms of reference

C. who measures the trustworthiness of the Al system

D. with special knowledge or skills in the area of endeavour and defines what is fit for purpose\\'

Correct Answer: D

In an AI project, a domain expert is a person with special knowledge or skills in that particular area of endeavour, and they are responsible for defining what is "fit for purpose" for the project. The domain expert provides insights into the

problem and suggests ways to address it. They also provide guidance on evaluating and validating the AI system and its outputs. The domain expert is also responsible for communicating with stakeholders and providing feedback on the

progress of the project.

References:

BCS Foundation Certificate In Artificial Intelligence Study Guide (2019), AI and People, Chapter 12.

https://www.apmg-international.com/en/al-adoption/domain-expert/

QUESTION 6

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=1008andcontext=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"

QUESTION 7

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

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 9

Healthcare can benefit from AI, and in particular Machine Learning, an example of which is?

A. Autonomous wheelchairs.

B. Automated blood sampling.

C. Autonomous vehicles.

D. Diagnostic image analysis

Correct Answer: D

Healthcare can benefit from AI, and in particular Machine Learning, in a number of ways. One example is diagnostic image analysis, which can help to automatically identify and classify abnormalities in medical images such as X-rays, CT scans, and MRI scans. Machine Learning algorithms can be used to detect patterns in the data which can be used to accurately diagnose diseases and illnesses.

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.ncbi.nlm.nih.gov/pmc/articles/PMC3859976/

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%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/