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QUESTION 1

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 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

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 4

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 5

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 AI 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/>

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