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QUESTION 1

Narrow or weak AI can be useful to robots.

Which of the following is an example of narrow AI?

- A. Conscious simul-ation.
- B. Artificial General AI.
- C. Conscious integration.
- D. NLP - Natural Language Processing.

Correct Answer: D

NLP - Natural Language Processing is an example of narrow AI. It is a type of AI system that is able to understand, interpret, and generate natural language. NLP has become increasingly popular over the past few years, as it has been used

to create applications such as chatbots, virtual assistants, and search engines. NLP systems are able to learn language and the context in which it is used, and they are able to understand the nuances of language and its different meanings.

References:

BCS Foundation Certificate In Artificial Intelligence Study Guide, <https://bcs.org/certifications/foundation-certificates/artificial-intelligence/>

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



In an AI 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 AI 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 4

In the 1800's the development of statistics led to _____ theorem and is used in probabilistic inference. (Select the missing word.)

- A. Boltzmann's
- B. Kolmogorov's
- C. Bayes'
- D. The central limit

Correct Answer: C

The development of statistics in the 1800s led to the development of the Bayes' theorem, named after Reverend Thomas Bayes. This theorem is used in probabilistic inference, which is the process of using data to calculate the likelihood of a

hypothesis or outcome. The theorem is used for determining the probability of an event occurring given its prior probability, as well as its associated conditions. The Bayes' theorem is also used in a variety of fields, such as machine learning,

artificial intelligence, economics, and medical research. Sources:

BCS Foundation Certificate In Artificial Intelligence Study Guide: <https://www.bcs.org/category/18071>

APMG International: <https://www.apmg-international.com/en/qualifications/qualification-resources/bcs-foundation-certificate-in-artificial-intelligence/>



EXIN: <https://www.exin.com/en/certification/bcs-foundation-certificate-in-artificial-intelligence>

QUESTION 5

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/>

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