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QUESTION 1

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

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 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

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 4

An agent based model is a simul-ation of autonomous agents (individual and collective). What can be used to learn from the data generated by the simul-ations?

A. Paraview.

B. Machine Learning.

C. Python.

D. A spreadsheet

Correct Answer: B

An agent based model is a simulation of autonomous agents (individual and collective). Machine learning can be used to learn from the data generated by the simulations. Machine learning algorithms can analyze the data generated by

simulations and identify patterns, which can then be used to help the agent make decisions and take actions.

References:

[1] BCS Foundation Certificate In Artificial Intelligence Study Guide, "Simulation and Modelling", p.101-104.

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

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

QUESTION 5

An AI agent relies on its perceptual input. This is called the agent\\'s what?

A. Position

B. Environment

C. World

D. Percept

Correct Answer: D

Performance Measure of Agent It is the criteria, which determines how successful an agent is.

Behavior of Agent It is the action that agent performs after any given sequence of percepts.

Percept It is agent\\'s perceptual inputs at a given instance. Percept Sequence It is the history of all that an agent has perceived till date. Agent Function It is a map from the precept sequence to an action.

Agent Terminology

https://www.tutorialspoint.com/artificial_intelligence/artificial_intelligence_agents_and_environments.htm

An AI agent relies on its perceptual input, which is referred to as the agent\\'s percept. This is the data that the agent collects through its sensors about its environment. The percept allows the agent to make decisions and take actions based on

its environment. The agent\\'s percept is important for Artificial Intelligence systems to be able to operate effectively.

References:

[1] BCS Foundation Certificate In Artificial Intelligence Study Guide, "Reinforcement Learning", p.96-97.

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

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

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