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Question 1

Question Type: MultipleChoice

The Scrum Master is part of which team?

Options:

A- Software development team.
B- Data preparation team
C- Agile project team.
D- Management team

Answer:

C

Explanation:

https://www.techtarget.com/whatis/definition/scrum-master#:~:text=A%20Scrum%20Master%20is%20a,in%20accordance%20with%20Agile%20principles.

The Scrum Master is part of the agile project team, and is responsible for ensuring that the team is following the Scrum process. The Scrum Master is the facilitator of the team, ensuring that the team is working together and following the Scrum principles. They are also responsible for protecting the team from any external influences and helping resolve any issues that may arise.

Question 2

Question Type: MultipleChoice

Which factor of a Waterfall' approach is most likely to result in the failed delivery of an Al project?

Options:

A- Takes longer to deliver all functional requirements.
B- Discourages collaboration and cross boundary communication.
C- Takes longer to complete the design phase of the project.
D- Discourages revisiting and revising any prior phase once it is complete.

Answer:

D

Explanation:

The Waterfall approach is a sequential design process in which each phase of development must be completed before the next phase can begin. This means that once a phase is complete, it is difficult to go back and make changes, as any changes made to the project could potentially affect all the other phases. As a result, the Waterfall approach can make it difficult to adapt to changing customer requirements or adjust to new technology. This can ultimately lead to the failed delivery of an AI project.

Question 3

Question Type: MultipleChoice

A vector in vector calculus is a quantity that has magnitude and direction.

What is a vector in computer programming?

Options:

A- An array with one dimension.
B- A two-dimensional array of scalars.
C- An array of complex numbers
D- A constant

Answer:

A

Explanation:

In computer programming, a vector is a data structure that contains a collection of elements that are all of the same type. Each element in the vector has an associated index, which can be used to access and modify the element at that index. Vectors are commonly used to store collections of numerical values (e.g., integers or floating-point numbers) or strings, but they can also be used to store any type of data.

Question 4

Question Type: MultipleChoice

Which option best is an advantage of a machine based system?

Options:

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

Answer:

C

Explanation:

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. Reference:

BCS Foundation Certificate In Artificial Intelligence Study Guide (2019), AI Systems, Chapter 8.

https://www.apmg-international.com/en/ai-adoption/advantages-of-ai/

Question 5

Question Type: MultipleChoice

A human manipulates what using their intelligence?

Options:

A- Environment
B- Space
C- Objective
D- Mission

Answer:

A

Explanation:

Humans use their intelligence to manipulate their environment in order to achieve their objectives and complete their mission. This can involve a wide range of activities, such as building tools, constructing shelters, and creating strategies to solve problems. Reference: BCS Foundation Certificate In Artificial Intelligence Study Guide,https://bcs.org/ai/certificate/and APMG International,https://www.apmg-international.com/qualifications/artificial-intelligence-foundation-certificate.

Question 6

Question Type: MultipleChoice

An intelligent robot uses AI to do what?

Options:

A- Sense, plan and act
B- Plan, act and speak.
C- Perceive, plan and act.
D- Sense, plan and move.

Answer:

C

Explanation:

An intelligent robot uses Artificial Intelligence (AI) to perceive its environment, plan its actions and then act on them. This is sometimes referred to as the ''sense, plan, act'' cycle, and is at the

heart of what makes a robot intelligent. By using AI, robots can sense their environment, plan their actions accordingly and then act on them in order to complete their tasks.

For more information, please refer to the BCS Foundation Certificate in Artificial Intelligence Study Guide:https://www.bcs.org/category/18076/bcs-foundation-certificate-in-artificial-intelligence-study-guide.

Question 7

Question Type: MultipleChoice

From the Ell's ethics guidelines for AI, what does 'The Principle of Autonomy,' mean?

Options:

A- Robots will have freewill.
B- AI agents will behave as humans.
C- AI systems will be human-centric
D- AI systems will preserve human agency.

Answer:

D

Explanation:

The Principle of Autonomy from the ELL's ethics guidelines for AI states that AI systems should be designed in a way that preserves human agency and responsibility. This means that AI systems should be designed in a way that allows humans to remain in control of their decisions, and that the AI system should not be able to act without human input or permission. Reference: BCS Foundation Certificate In Artificial Intelligence Study Guide,https://bcs.org/ai/certificate/and APMG International,https://www.apmg-international.com/qualifications/artificial-intelligence-foundation-certificate.

Question 8

Question Type: MultipleChoice

Which option best is an example of fitting a curve to a set of data?

Options:

A- Python.
B- Least squares regression.
C- Bayesian network.
D- Backward propagation.

Answer:

B

Explanation:

Least Squares Regression is a statistical technique used for fitting a curve to a set of data. It involves minimizing the sum of the squares of the differences between the observed data and the fitted curve. This is done by finding the line of best fit, which is the line that minimizes the sum of the squared residuals. The line of best fit is determined by finding the parameters that give the minimum sum of the squared residuals. This technique is often used in data science and machine learning to create models that can be used to make predictions. Reference: BCS Foundation Certificate In Artificial Intelligence Study Guide,https://bcs.org/certifications/foundation-certificates/artificial-intelligence/

Question 9

Question Type: MultipleChoice

What does Prof David Chalmers describe the hard consciousness problem to be as comples as?

Options:

A- Psychology.
B- Turbulence.
C- Quantum mechanics.
D- The universe.

Answer:

D

Explanation:

Prof David Chalmers describes the hard consciousness problem to be as complex as the universe. He argues that understanding consciousness is as hard as understanding the universe itself, due to the number of variables and dimensions involved. He has compared the complexity of the problem to that of turbulence, quantum mechanics, and psychology, but believes that the problem of consciousness is even more complex than all of these.

Question 10

Question Type: MultipleChoice

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?

Options:

A- Paraview.
B- Machine Learning.
C- Python.
D- A spreadsheet

Answer:

B

Explanation:

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. Reference:

[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 11

Question Type: MultipleChoice

How could machine learning make a robot autonomous?

Options:

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.

Answer:

D

Explanation:

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. Reference:

[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 12

Question Type: MultipleChoice

With a large dataset, limited computational resources or frequent new data to learn from, we can adopt what type of machine learning?

Options:

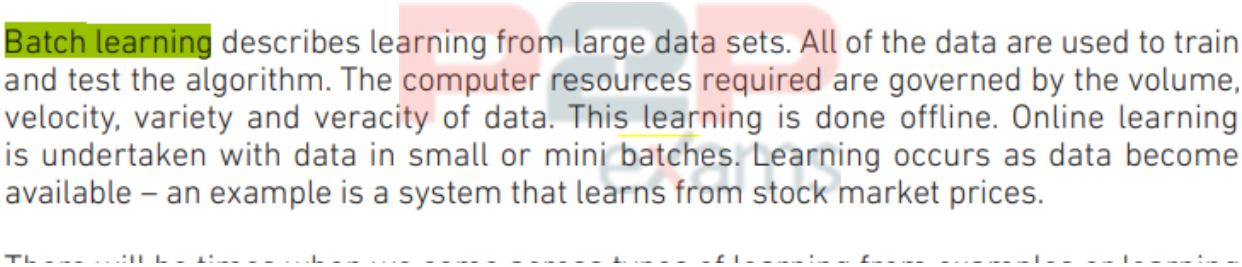
A- Batch learning.

B- Big Data learning.
C- Patchwork learning.
D- Online learning.

Answer:

D

Explanation:


Batch learning describes learning from large data sets. All of the data are used to train and test the algorithm. The computer resources required are governed by the volume, velocity, variety and veracity of data. This learning is done offline. Online learning is undertaken with data in small or mini batches. Learning occurs as data become available – an example is a system that learns from stock market prices.

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).