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Question: 114

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.

Answer: B

Explanation:

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: 115

The EU's Ethical Guidelines use what to demonstrate trustworthy Al?

A. A quality assurance plan.
B. UN's sustainability goals.
C. Customer feedback.
D. A human-centric value system.

Answer: D

Explanation:

The European Union's Ethical Guidelines for Trustworthy AI use a human-centric value system to demonstrate that Artificial Intelligence (AI) is trustworthy. This value system is based on human rights, autonomy, safety, privacy, transparency, accountability and fairness. The guidelines also state that AI should be designed, developed and used in a manner that respects these values. References:

â https://ec.europa.eu/digital-single-market/en/news/ethical-guidelines-trustworthy-ai

â BCS Foundation Certificate In Artificial Intelligence Study Guide (2019), A.I & Ethics, Chapter 5.

Question: 116

Narrow or weak Al can be useful to robots.

Which of the following is an example of narrow Al?

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

Answer: D

Explanation:

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: 117

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'

Answer: D

Explanation:

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:

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

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

Question: 118

The Scrum Master is part of which team?

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.

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.scrumguides.org/scrum-guide.html

Question: 119

Which of the following is an example of fitting a curve to a set of data?

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.

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

Question: 119

A human manipulates what using their intelligence?

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.

References: 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: 120

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

What is a vector in computer programming?

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.

References:

[1] BCS Foundation Certificate In Artificial Intelligence Study Guide, Page number 36

[2] APMG International, âWhat is a Vector in Computer Programming?â, https://apmg-international.com/en/blog/what-is-a-vector-in-computer-programming/

[3] EXIN, âWhat is a Vector in Computer

Programming?â, https://www.exin.com/blog/what-is-a-vector-in-computer-programming/

Question: 121

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.

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.

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: 122

Reflex and Model-based Reflex are two types of what?

A. Robot
B. Artificial intelligent agents.
C. Algorithms.
D. Compilers.

Answer: B

Explanation:

Reflex and Model-based Reflex are two types of Artificial Intelligent Agents. Artificial Intelligent Agents are computer systems designed to act and think in a manner similar to humans, incorporating elements of problem solving, decision-making, communication, and learning. Reflex agents are reactive agents which act based on the current environment and conditions, while Model-based Reflex agents use a model of the environment to make decisions.

References: 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.

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