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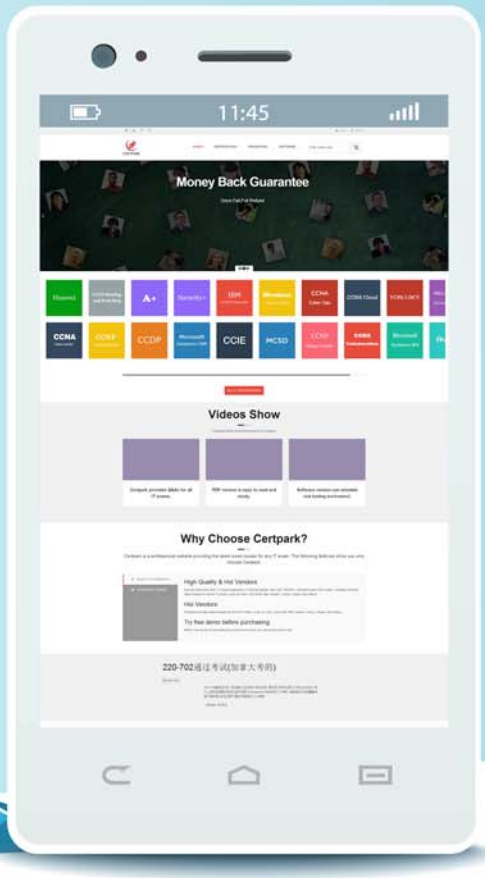

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Exam : **D-GAI-F-01**

Title : Dell GenAI Foundations Achievement

Version : DEMO

1.Whatare the three key patrons involved in supporting the successful progress and formation ofany AI-based application?
A. Customer facing teams, executive team, and facilities team
B. Marketing team, executive team, and data science team
C. Customer facing teams, HR team, and data science team
D.Customer facing teams, executive team, and data science team
Answer: D
Explanation:
Customer Facing Teams: These teams are critical in understanding and defining the requirements of the AI-based application from the end-user perspective. They gather insights on customer needs, pain points, and desired outcomes, which are essential for designing a user-centric AI solution.

2.What is the primary purpose oi inferencing in the lifecycle of a Large Language Model (LLM)?
A. To customize the model for a specific task by feeding it task-specific content
B. To feed the model a large volume of data from a wide variety of subjects
C. To use the model in a production, research, or test environment
D. To randomize all the statistical weights of the neural networks
Answer: C
Explanation:
Inferencing in the lifecycle of a Large Language Model (LLM) refers to using the model in practical applications. Here's an in-depth explanation:
Inferencing: This is the phase where the trained model is deployed to make predictions or generate outputs based on new input data. It is essentially the model's application stage.
Production Use: In production, inferencing involves using the model in live applications, such as chatbots or recommendation systems, where it interacts with real users.
Research and Testing: During research and testing, inferencing is used to evaluate the model's performance, validate its accuracy, and identify areas for improvement.
References:
LeCun, Y., Bengio, Y., & Hinton, G. (2015).Deep Learning. Nature, 521(7553), 436-444.
Chollet, F. (2017). Deep Learning with Python. Manning Publications.

3.What is the primary function of Large Language Models (LLMs) in the context of Natural Language Processing?
A. LLMs receive input in human language and produce output in human language.
B. LLMs are used to shrink the size of the neural network.
C. LLMs are used to increase the size of the neural network.
D. LLMs are used to parse image, audio, and video data.
Answer: A
Explanation:
The primary function of Large Language Models (LLMs) in Natural Language Processing (NLP) is to process and generate human language.
Here's a detailed explanation:
Function of LLMs: LLMs are designed to understand, interpret, and generate human language text. They can perform tasks such as translation, summarization, and conversation.

Input and Output: LLMs take input in the form of text and produce output in text, making them versatile tools for a wide range of language-based applications.
Applications: These models are used in chatbots, virtual assistants, translation services, and more, demonstrating their ability to handle natural language efficiently.
References:
Devlin, J., Chang, M. W., Lee, K., & Toutanova, K. (2018). BERT: Pre-training of Deep Bidirectional Transformers for Language Understanding. arXiv preprint arXiv: 1810.04805.
Brown, T. B., Mann, B., Ryder, N., Subbiah, M., Kaplan, J., Dhariwal, P., ... & Amodei, D. (2020). Language Models are Few-Shot Learners. In Advances in Neural Information Processing Systems.

4.What is one of the positive stereotypes people have about AI?
A. AI is unbiased.
B. AI is suitable only in manufacturing sectors.
C. AI can leave humans behind.
D. AI can help businesses complete tasks around the clock 24/7.
Answer: D
Explanation:
24/7 Availability: AI systems can operate continuously without the need for breaks, which enhances productivity and efficiency. This is particularly beneficial for customer service, where AI chatbots can handle inquiries at any time.

5.What are the enablers that contribute towards the growth of artificial intelligence and its related technologies?
A. The introduction of 5G networks and the expansion of internet service provider coverage
B. The development of blockchain technology and quantum computing
C. The abundance of data, lower cost high-performance compute, and improved algorithms
D. The creation of the Internet and the widespread use of cloud computing
Answer: C
Explanation:
Several key enablers have contributed to the rapid growth of artificial intelligence (AI) and its related technologies.
Here’s a comprehensive breakdown:
Abundance of Data: The exponential increase in data from various sources (social media, IoT devices, etc.) provides the raw material needed for training complex AI models.
High-Performance Compute: Advances in hardware, such as GPUs and TPUs, have significantly lowered the cost and increased the availability of high-performance computing power required to train large AI models.
Improved Algorithms: Continuous innovations in algorithms and techniques (e.g., deep learning, reinforcement learning) have enhanced the capabilities and efficiency of AI systems.
References:
LeCun, Y., Bengio, Y., & Hinton, G. (2015).Deep Learning. Nature, 521(7553), 436-444.
Dean, J. (2020). AI and Compute. Google Research Blog.