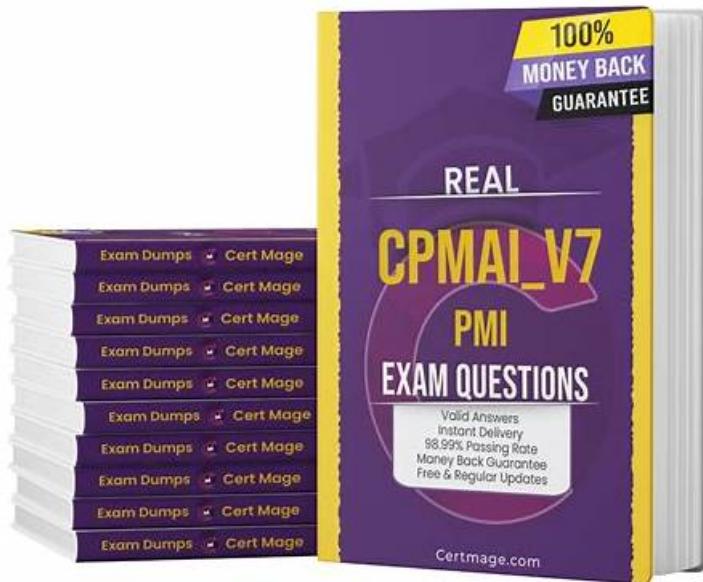


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PMI CPMAI_v7 Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> • Managing AI: This section is for the Project Manager and involves assessing model performance through quality assurance practices, validation techniques, overfitting and underfitting strategies, alignment with KPIs, and iterative refinements. It additionally covers the deployment of AI from training to inference, operationalization in production environments, on-premise or cloud resource selection, data lifecycle management, version control, and the choice of appropriate machine learning services.
Topic 2	<ul style="list-style-type: none"> • Machine Learning: This section is aimed at the Data AI Lead and addresses practical machine learning applications. It begins with classification, clustering, and reinforcement algorithms, including ensemble methods and evaluation against business needs. Afterwards, it examines neural network architecture design and deep learning implementation across multiple problem types. Generative AI and LLMs follow, covering use-case suitability, limitations, operation explanations, prompt engineering, fine-tuning, and integrating these technologies into augmented intelligence solutions.
Topic 3	<ul style="list-style-type: none"> • Domain VI Trustworthy AI: This section is designed for the Project Manager and focuses on ethical, responsible, and transparent AI development. It covers building trustworthy systems, dispelling misconceptions, evaluating real-world ethical concerns, defining responsible frameworks, and implementing mitigation tactics for unintended harms. It addresses data privacy, GDPR compliance, protection of PII, anonymization techniques, security against adversarial threats, and monitoring.
Topic 4	<ul style="list-style-type: none"> • AI Fundamentals: This section measures the abilities of a Project Manager and explores foundational AI concepts, including its definition, links to human cognition, and differences across AGI, Strong, Weak, and Narrow AI. It includes understanding the Turing Test and cognitive computing, dispelling myths, and applying augmented intelligence in business contexts. The historical progression of AI, such as AI winters, symbolic logic, expert systems, and fuzzy logic, is examined along with reasons for AI's current prominence and its role in digital transformation. The section continues to assess the identification of suitable AI use cases, understanding limitations, and adoption patterns like conversational AI, speech processing, anomaly detection, RPA, goal-driven systems, and integrated AI solutions.
Topic 5	<ul style="list-style-type: none"> • CPMAI Methodology: This domain measures the skills of a Project Manager and outlines the distinctive characteristics of AI projects compared to traditional software development. It investigates failure drivers, ROI justification, data quantity and quality challenges, proof-of-concept issues, real-world deployment barriers, lifecycle continuity, vendor mismatches, stakeholder misalignment, and adaptation of waterfall, lean, and agile approaches through the six phases of the CPMAI framework.

PMI Cognitive Project Management in AI CPMAI v7 - Training & Certification Exam Sample Questions (Q12-Q17):

NEW QUESTION # 12

Your organization has just rolled out a new image recognition system and is asking all employees to use it. It was trained using images from the ImageNet test set. After a few weeks, users are finding the results are not as expected and are asking for visibility into all the aspects of what went into building an AI system. What area of Trustworthy AI is being addressed here?

- A. Responsible AI
- B. Governed AI
- C. AI Systemic Transparency
- D. Explainable AI
- E. Transparent AI

Answer: E

Explanation:

In CPMAI's Trustworthy AI framework, Transparent AI focuses on providing clear documentation of data sources, modeling approaches, evaluation methods, and deployment plans so that stakeholders can audit and understand how the system was built. The users' request for "visibility into all aspects" of model development, training data, and test sets directly maps to the Required AI Transparency Considerations task early in the methodology .

NEW QUESTION # 13

In the case that an algorithm you want to use isn't algorithmically explainable, AI systems should try to do the following:

- A. Provide a means to reverse-engineer the algorithm to inspect its performance
- B. Provide a means to have a different team on the project
- C. Provide a means to have contestability of the algorithm selected
- D. Provide a means to interpret AI results so that cause and effect can be represented.

Answer: D

Explanation:

Under Required AI Explainability Considerations, CPMAI mandates that when a chosen model is a "black- box" with limited native interpretability, teams must implement post-hoc interpretability techniques (e.g., feature#importance plots, surrogate models) to "interpret AI results so that cause and effect can be represented," ensuring stakeholders understand why the model makes its predictions.

NEW QUESTION # 14

You're running an AI project and want to speed up training of the model so that you can complete your current CPMAI iteration within the two week timeframe the team has set. What's one approach to speed up model training?

- A. Use data from a previous project
- B. Use or extend a pre-trained model
- C. Use brute force method
- D. Use cloud-based technology

Answer: B

Explanation:

The Transfer Learning task in Phase IV: Model Development recommends leveraging a pre-trained model as the starting point for a new, related task. By fine-tuning rather than training from scratch, teams dramatically reduce compute time and data requirements-ideal for tight iteration cycles.

NEW QUESTION # 15

You have been tasked at your organization to manage a large language model (LLM) project. Identify what LLMs are useful for. (Select all that apply.)

- A. Classify and categorize content
- B. Text summarization
- C. Improve search quality
- D. Code generation
- E. Process automation
- F. Machine Translation

Answer: A,B,C,D,F

Explanation:

Large language models (LLMs) excel at generating, understanding, and manipulating text. According to the CPMAI Glossary: Content summarization is a core NLP function: "the process of using AI/ML techniques to generate a concise overview of a larger body of text." Machine translation: "the use of AI to automatically translate text or speech from one language to another."

Classification: LLMs can assign content to categories via fine-tuned classification heads ("classifier" term), making them suitable for content categorization.

Code generation: As generative AI, LLMs can produce new content, including code snippets, by pattern learning from programming corpora ("generative AI" term).

Search quality improvement: LLMs can rephrase queries, expand keywords, and rank results to enhance search relevance. Though not explicitly detailed in the glossary, this capability derives directly from their generative and understanding strengths.

LLMs are not designed for pure process automation (option A), which is handled by RPA or orchestrators rather than by text-centric models.

NEW QUESTION # 16

You are working with a dataset that has a high number of dimensions. You're running into issues because some dimensions don't have enough real examples to properly train the systems for predictable results. What's your best course of action?

- A. Try to get additional information from project lead to see how many examples per dimension are needed
- B. Try to get additional data - at least 5 training examples for each dimension in the representation
- C. Keep going as planned and the problem will eventually correct itself
- D. Try to improve the quality of your data through more preparation

Answer: B

Explanation:

CPMAI's Phase II: Data Understanding includes verifying that you have sufficient data volume for each feature to support reliable model training. The learning curve concept underscores that model performance improves with additional training examples. When dimensions are under-represented, the team must source or generate more data-aiming for a minimum number of examples per feature-to avoid underfitting and ensure stable predictions.

NEW QUESTION # 17

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