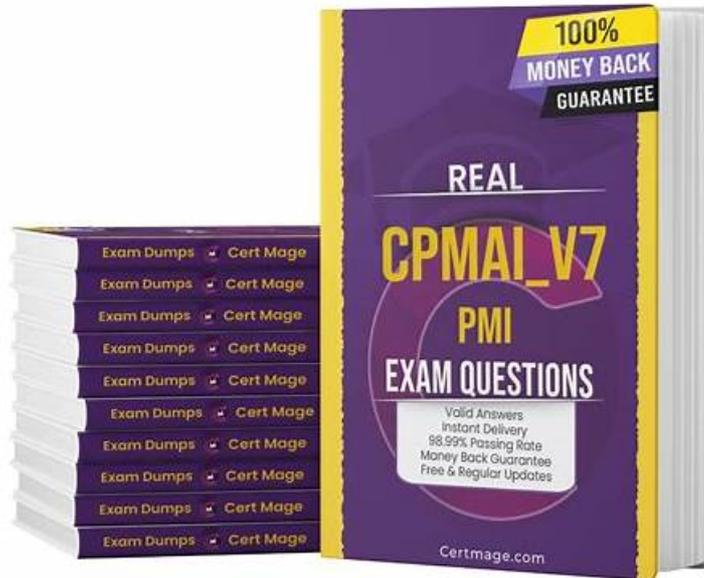


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PMI PMI-CPMAI Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Identifying Data Needs for AI Projects (Phase II): This section of the exam measures the skills of a Data Analyst and covers how to determine what data an AI project requires before development begins. It explains the importance of selecting suitable data sources, ensuring compliance with policy requirements, and building the technical foundations needed to store and manage data responsibly. The section prepares candidates to support early data planning so that later AI development is consistent and reliable.
Topic 2	<ul style="list-style-type: none"> Iterating Development and Delivery of AI Projects (Phase IV): This section of the exam measures the skills of an AI Developer and covers the practical stages of model creation, training, and refinement. It introduces how iterative development improves accuracy, whether the project involves machine learning models or generative AI solutions. The section ensures that candidates understand how to experiment, validate results, and move models toward production readiness with continuous feedback loops.
Topic 3	<ul style="list-style-type: none"> Matching AI with Business Needs (Phase I): This section of the exam measures the skills of a Business Analyst and covers how to evaluate whether AI is the right fit for a specific organizational problem. It focuses on identifying real business needs, checking feasibility, estimating return on investment, and defining a scope that avoids unrealistic expectations. The section ensures that learners can translate business objectives into AI project goals that are clear, achievable, and supported by measurable outcomes.

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PMI Certified Professional in Managing AI Sample Questions (Q58-Q63):

NEW QUESTION # 58

A healthcare provider had physicians review a potential diagnostic AI application. During their final review, the project team, along with the physicians, discovered that the AI model exhibits a higher than acceptable false-positive rate.

Before making the go/no-go AI decision, which next step should be performed by the team?

- A. Adjust the hyperparameters for better generalization
- B. Focus on the model's ethical implications
- C. Increase the training data volume
- D. Reevaluate the business objectives and outcomes

Answer: D

Explanation:

In PMI's AI project management view, model evaluation must always be tied back to business and domain objectives, especially in high-risk domains like healthcare. A high false-positive rate in a diagnostic system directly affects clinical workflow, patient anxiety, and cost. Before deciding to proceed or invest in further model tuning, PMI recommends confirming whether the observed performance actually meets or fails the agreed success criteria and risk thresholds.

The PMI-CPMAI approach to AI risk and value alignment stresses that teams should "evaluate model performance in the context of stakeholder needs, risk tolerance, and expected outcomes, revisiting objectives and requirements when discrepancies emerge" (paraphrased from PMI AI risk and value guidance). In this scenario, the team and physicians have identified that the false-positive rate is higher than acceptable. The next step, before a go/no-go decision, is to reassess the business and clinical objectives, trade-offs, and acceptable error rates: e.g., whether increased sensitivity justifies more false positives, or whether the system must be redesigned or repositioned (decision support vs. primary screener).

Technical options like hyperparameter tuning or more data may eventually be used, but they come after confirming what level of performance and error trade-off is required. Therefore, the appropriate next step is to reevaluate the business objectives and outcomes.

NEW QUESTION # 59

A financial services firm is building an AI model to detect fraudulent transactions. Identifying and validating data sources is critical to the model's success.

What is an effective method that helps to ensure data accuracy?

- A. Setting up a batch processing system for data cleansing
- B. Implementing a blockchain-based ledger for transaction data
- C. Utilizing data lineage tools to track data origin and transformations
- D. Employing a federated database system for decentralized data access

Answer: C

Explanation:

For a financial services firm building an AI model for fraud detection, the accuracy and trustworthiness of transaction data is critical. PMI-CPMAI's guidance on AI data governance stresses the need to understand where data comes from, how it flows, and what transformations it undergoes before being used for model training or inference. This is precisely what data lineage tools are designed to support.

Data lineage enables teams to trace data back to its original source, see each processing step (cleansing, aggregation, enrichment), and verify that transformations conform to defined business and regulatory rules. In regulated sectors like finance, this traceability is essential for audits, model validation, and demonstrating that AI decisions (such as fraud flags) are based on accurate, well-governed data. While technologies like blockchain (option C) or batch cleansing (option D) may have roles in specific architectures, PMI-style AI governance places primary emphasis on visibility, traceability, and control over the data lifecycle.

A federated database system (option B) addresses access architecture, not inherently accuracy. By contrast, utilizing data lineage tools directly supports identifying and validating data sources and understanding whether the data remains accurate after multiple hops. Therefore, in line with PMI-CPMAI data governance practices, option A is the most effective method listed to help ensure data accuracy.

NEW QUESTION # 60

An IT services company is working on a project to develop an AI-based customer support system. During data preparation, the project manager needs to clean and transform customer interaction logs. What is an effective technique to handle any missing data?

- A. Remove records with missing values if minimal
- B. Duplicate existing data to fill in missing gaps
- C. Fill missing values with zeros without analysis
- D. Ignore missing data if it seems insignificant

Answer: A

Explanation:

In PMI-aligned AI data management practices, handling missing data is approached from a risk, quality, and fitness-for-use perspective. Before model development, the project manager must ensure that the dataset is not only complete enough, but also representative and unbiased for the intended AI use case. When the portion of missing data is minimal and not systematically biased, a common, acceptable mitigation is to remove those records so that the remaining dataset maintains integrity and consistency while avoiding the introduction of artificial or misleading values.

Options B and C (duplicating data or blindly filling zeros) can create serious distortions in the underlying data distribution, leading to biased model behavior, degraded performance, and weaker generalization, which contradicts responsible AI practices highlighted in PMI-style guidance. Simply ignoring missing data (option D) without a structured strategy or analysis is also discouraged, as it hides potential data quality issues and can propagate errors downstream.

Therefore, in line with good AI data preparation practice, when missingness is genuinely limited and not concentrated in critical attributes, removing records with missing values if minimal (option A) is the most effective and responsible approach among the given choices.

NEW QUESTION # 61

A logistics company wants to optimize its delivery routes while adapting to real-time traffic conditions. Which AI pattern or patterns meet these goals?

- A. Recognition and content summarization
- B. Conversational
- C. Predictive analytics
- D. Automation and rule-based systems

Answer: C

Explanation:

Within CPMAI and PMI's AI pattern framing, predictive analytics is the pattern that focuses on using historical and real-time data to forecast future states—exactly what is needed for route optimization under changing traffic conditions. For a logistics company, the AI system must estimate future travel times, congestion levels, delays, and likely delivery windows. These predictions are then used as inputs to optimization logic that chooses the best routes and adjusts them dynamically as new data arrives.

Recognition/summarization patterns focus on classification or extracting meaning from content (such as images or text), while conversational patterns are aimed at dialog systems like chatbots. Automation and rule-based systems can encode fixed routing rules, but they cannot by themselves learn patterns from historical traffic and adapt to evolving conditions. PMI/CPMAI guidance highlights that when the business problem involves forecasting outcomes to inform better decisions, the appropriate AI pattern is predictive analytics—often implemented with regression, time-series models, or more advanced learning approaches. Therefore, for optimizing delivery routes while adapting to real-time traffic, the correct pattern is predictive analytics, making option D the appropriate choice.

NEW QUESTION # 62

An aerospace company is integrating AI for predictive maintenance. The project manager is concerned about potential delays due to

external dependencies.

Which initial step should the project manager take?

- A. Implement just-in-time inventory
- **B. Engage with multiple suppliers**
- C. Increase resource allocation
- D. Establish contingency plans

Answer: B

Explanation:

Within the PMI Certified Professional in Managing AI (PMI-CPMAI) framework, managing external dependencies is a core component of AI project risk management, especially for industries such as aerospace where supply chains and component availability can significantly affect timelines. PMI emphasizes that external dependency risks—such as reliance on specialized hardware, sensors, cloud services, or third-party data streams—must be addressed proactively to ensure uninterrupted AI system development and deployment.

The PMI-CPMAI Risk and Dependency Management section states that AI project managers should "identify and stabilize critical external inputs early in the lifecycle, particularly when those dependencies are single-source or highly specialized." It further highlights that mitigation begins with "diversifying suppliers or service providers to reduce the probability of bottlenecks or delays caused by external parties." This approach not only reduces vulnerability but also improves resilience and reduces procurement-related schedule risks.

Although increasing internal resources (A) or implementing just-in-time inventory (B) may optimize internal operations, they do not mitigate dependency on external providers. Establishing contingency plans (C) is important but is not the initial action; PMI guidance is clear that risk avoidance and reduction take precedence over contingency responses. The most appropriate first step, according to PMI-CPMAI, is to "engage with multiple suppliers to ensure redundancy and reduce exposure to single-point external failures."

NEW QUESTION # 63

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