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PMI PMI-CPMAI Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• Testing and Evaluating AI Systems (Phase V): This section of the exam measures the skills of an AI Quality Assurance Specialist and covers how to evaluate AI models before deployment. It explains how to test performance, monitor for drift, and confirm that outputs are consistent, explainable, and aligned with project goals. Candidates learn how to validate models responsibly while maintaining transparency and reliability.}
Topic 3	• The Need for AI Project Management: This section of the exam measures the skills of an AI Project Manager and covers why many AI initiatives fail without the right structure, oversight, and delivery approach. It explains the role of iterative project cycles in reducing risk, managing uncertainty, and ensuring that AI solutions stay aligned with business expectations. It highlights how the CPMAI methodology supports responsible and effective project execution, helping candidates understand how to guide AI projects ethically and successfully from planning to delivery.

Topic 4	• 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.
Topic 5	• Managing Data Preparation Needs for AI Projects (Phase III): This section of the exam measures the skills of a Data Engineer and covers the steps involved in preparing raw data for use in AI models. It outlines the need for quality validation, enrichment techniques, and compliance safeguards to ensure trustworthy inputs. The section reinforces how prepared data contributes to better model performance and stronger project outcomes.
Topic 6	• Operationalizing AI (Phase VI): This section of the exam measures the skills of an AI Operations Specialist and covers how to integrate AI systems into real production environments. It highlights the importance of governance, oversight, and the continuous improvement cycle that keeps AI systems stable and effective over time. The section prepares learners to manage long term AI operation while supporting responsible adoption across the organization.

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PMI Certified Professional in Managing AI Sample Questions (Q75-Q80):

NEW QUESTION # 75
An aerospace firm is developing an AI system for predictive maintenance of their aircraft. The project team needs to define the required data to train the model.
Which activity should the project manager implement?

- A. Setting up real-time data streaming from aircraft sensors
- B. Developing a comprehensive data collection strategy
- C. Implementing data cleaning and preprocessing routines
- D. Conducting a pilot test with a small dataset

Answer: B

Explanation:
For an AI-based predictive maintenance system, PMI-style AI lifecycle guidance emphasizes that the first critical step is defining a comprehensive data collection strategy aligned with the business objective and risk profile. Predictive maintenance models require a blend of historical failure records, maintenance logs, operational sensor readings (e.g., temperature, vibration, pressure), usage patterns, and contextual data such as environment and flight profile. The project manager is expected to ensure clarity on what data is needed, from which sources, at what frequency, and under what quality standards, before investing in pipelines, cleaning routines, or pilots.
Option A (setting up real-time streaming) and B (data cleaning and preprocessing) are important implementation tasks, but they come after the fundamental question of "which data and why?" has been answered. Option D (pilot with a small dataset) is a useful validation step, but it still depends on having the right data identified and collected in the first place. PMI-oriented AI governance stresses making data requirements explicit and traceable to model objectives, performance metrics, and regulatory constraints.
Thus, the project manager should develop a comprehensive data collection strategy (option C) to define and structure all required data for training the predictive maintenance model.

NEW QUESTION # 76

A project team is tasked with ensuring all AI-related decisions and actions are documented comprehensively for future auditing purposes. They need to track the reasons for specific AI choices, their impacts, and any issues encountered during the implementation.
What is represented in this situation?

- A. Operational efficiency
- B. Compliance management
- C. Strategic alignment
- D. Transparency

Answer: D

Explanation:
PMI-CPMAI places special emphasis on transparency and traceability as pillars of responsible AI. Transparency is defined not only as making AI behavior understandable, but also as maintaining clear documentation of decisions, rationales, configurations, changes, and incidents throughout the AI lifecycle. When a project team explicitly works to record why certain AI choices were made, what impacts they had, and which issues arose-specifically for future auditing and accountability-they are implementing transparency practices.
The framework explains that transparent AI management requires establishing audit trails: who approved which model, why a particular dataset was selected, which hyperparameters or thresholds were used, what risks were identified, and how they were mitigated. This documentation later supports internal and external audits, regulatory inquiries, and stakeholder questions. While such records contribute to compliance management and can indirectly support strategic alignment and operational efficiency, the concept being directly represented in the scenario is transparency-the deliberate effort to make AI decisions and their consequences visible, explainable, and reviewable.
Therefore, the situation described-comprehensive documentation of decisions, impacts, and issues for auditability-is best characterized as transparency rather than general compliance or efficiency.

NEW QUESTION # 77
During the evaluation of an AI solution, the project team notices an unexpected decline in model performance. The model was previously achieving high accuracy but has recently shown increased error rates.
Which action will identify the cause of the performance decline?

- A. Reviewing recent changes made to the model's architecture and parameters
- B. Checking for issues in the data preprocessing pipeline that may have introduced noise
- C. Analyzing the distribution of real world data for potential shifts
- D. Increasing the amount of regularization to prevent overfitting

Answer: C

Explanation:
In PMI-CPMAI, ongoing monitoring and performance management are core responsibilities during the AI lifecycle. A model that once performed well but later shows increased error rates often suffers from data drift or concept drift-situations where the real-world data distribution or underlying relationships change compared with the training data. PMI-CPMAI guidance stresses that identifying the root cause of such degradation requires examining how incoming production data differs from historical or training data.
By analyzing the distribution of real-world data for potential shifts, the project team can detect changes in key input features, population characteristics, usage patterns, or label definitions that may be driving performance decline. This aligns with recommended practices in AI operations (MLOps) such as monitoring feature distributions, stability metrics, and segment-level performance over time.
Other actions, like reviewing architecture or increasing regularization, are design-level changes and treat symptoms without first confirming whether the environment has changed. Similarly, checking the preprocessing pipeline is useful when suspecting a technical bug, but the question focuses on identifying the cause of a gradual or unexpected performance drop in real deployment. PMI-CPMAI emphasises that data and context drift analysis is the primary diagnostic step in such scenarios. Therefore, the most appropriate action is to analyze the distribution of real-world data for potential shifts.

NEW QUESTION # 78
After implementing an iteration of an AI solution, the project manager realizes that the system is not scalable due to high maintenance requirements. What is an effective way to address this issue?

- A. Incorporate a generative AI approach to streamline model updates.
- B. Switch to a rule-based system to reduce maintenance complexity.
- C. Adopt a modular architecture to isolate different system components.
- D. Utilize cloud-based solutions to enhance maintenance scalability.

Answer: C

Explanation:
When an AI solution is described as "not scalable due to high maintenance requirements," PMI-style AI governance and lifecycle guidance points toward architectural refactoring rather than simply changing technologies or deployment environments. High maintenance often stems from tight coupling, monolithic design, and lack of clear separation between data, model, business logic, and interface layers.
Adopting a modular architecture to isolate different system components (option C) directly addresses this problem. In a modular or microservice-oriented design, each component-data ingestion, feature engineering, model training, model serving, monitoring, etc.-is separated behind clear interfaces. This makes it much easier to update or replace one part of the system without impacting the whole, which reduces maintenance overhead and improves scalability over time. It also supports independent deployment, targeted testing, and selective scaling of the components that receive the heaviest load.
Switching to a rule-based system (option A) typically increases maintenance complexity in dynamic environments. Incorporating generative AI (option B) may change the modeling approach but does not inherently solve structural maintenance issues. Utilizing cloud-based solutions (option D) helps with infrastructure scalability but does not fix architectural coupling. Therefore, the most effective way to address non-scalability caused by high maintenance requirements is to adopt a modular architecture.

NEW QUESTION # 79
An IT services company is verifying data quality for an AI project aimed at predicting server downtimes. The project manager needs to decide whether to proceed with data preparation.
Which technique should the project manager use?

- A. Detailed cost-benefit analysis
- B. Advanced data labeling methods
- C. Exploratory data analysis (EDA)
- D. Data augmentation strategies

Answer: C

Explanation:
PMI-CPMAI emphasizes that data quality assessment must precede data preparation and modeling. The recommended technique at this stage is exploratory data analysis (EDA) to understand whether the data is fit for the AI use case. EDA allows the project team to examine distributions, detect missing values, outliers, noise, inconsistencies, data drift, and potential bias.
In the AI lifecycle view adopted by PMI, the data assessment step focuses on profiling data before investing effort in cleaning, transformation, or feature engineering. EDA gives insight into whether the available logs and telemetry (such as server performance metrics for downtime prediction) contain sufficient signal, appropriate time coverage, and consistent labeling to support reliable modeling. This aligns with PMI's guidance that project managers should "confirm that the dataset is adequate in completeness, accuracy, and relevance to the business objective before proceeding with preparation and modeling" (paraphrased from PMI AI data practices guidance).
Other options like data augmentation or advanced labeling are downstream enhancement techniques, and cost-benefit analysis is a management tool, not a data quality method. To decide whether to proceed with data preparation, the most suitable technique is exploratory data analysis (EDA).

NEW QUESTION # 80
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