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PMI PMI-CPMAI Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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 4	• 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.

PMI Certified Professional in Managing AI Sample Questions (Q42-Q47):

NEW QUESTION # 42
A capital markets firm is exploring the use of AI to enhance its trading algorithms. The firm expects the AI solution will increase trading accuracy and profitability. The project manager needs to create a business case to justify the AI investment.
Which method will provide results that meet the firm's goals and objectives?

- A. Consulting with AI vendors
- B. Conducting a market trend analysis
- C. Developing a financial impact assessment
- D. Performing a scenario analysis

Answer: C

Explanation:
Within PMI-CPMAI's treatment of AI business cases, the core expectation is that the project manager demonstrates clear, quantifiable value aligned with organizational goals. For a capital markets firm whose objectives are improved trading accuracy and profitability, the most suitable method is to develop a financial impact assessment that translates AI benefits into measurable financial terms. This assessment typically compares the current trading performance (baseline) with projected AI-enhanced performance, estimating impacts on revenues, margins, risk-adjusted returns, and operational costs.
PMI's AI-oriented business case guidance emphasizes that decision makers need a structured view of costs, benefits, risks, and assumptions, expressed in financial metrics such as net benefit, payback period, ROI, or expected value under uncertainty. Market trend analyses and vendor consultations can inform context and options but do not directly quantify how the AI solution improves trading results. Scenario analysis can support stress testing and complement the financial view, yet the central artifact that "meets the firm's goals and objectives" for funding decisions is a financial impact assessment tied to accuracy and profitability. Thus, the method that best satisfies the firm's needs is developing a financial impact assessment.

NEW QUESTION # 43
A consulting firm is preparing data for an AI-driven customer segmentation model. They need to verify data quality before data preparation.
What should the project manager do first?

- A. Conduct data cleaning.
- B. Assess data completeness.
- C. Implement data enhancement.
- D. Apply data labeling techniques.

Answer: B

Explanation:
Before any data preparation or modeling, PMI-CP-style guidance on AI initiatives emphasizes data quality assessment as the first critical activity. Quality must be evaluated before cleaning, enrichment, or labeling so that the team clearly understands the condition of the raw data and the scope of remediation needed. One of the primary quality dimensions to check early is completeness-whether required fields are present, whether key attributes are missing, and whether coverage is sufficient across the population of customers for meaningful segmentation.
If completeness issues are severe, downstream activities such as data cleaning, enhancement, and modeling may propagate bias or

produce unstable segments. By systematically assessing data completeness first, the project manager enables the team to: (1) quantify gaps, (2) decide whether to obtain additional data, and (3) prioritize subsequent cleaning and enrichment steps. Data enhancement (option B) and cleaning (option C) are important, but they are remedial actions that should be guided by the initial quality assessment. Data labeling (option D) is more relevant for supervised learning use cases than for unsupervised customer segmentation. Therefore, to verify data quality prior to preparation, the project manager should first assess data completeness.

NEW QUESTION # 44

A telecommunications company's AI project team is operationalizing a predictive maintenance model for network equipment. They need to meticulously manage the model's configuration to avoid potential failures.
Which method will help the model configuration remain consistent and avoid drift?

- A. Implementing automated retraining schedules
- B. Employing frequent algorithm operationalizations
- C. Utilizing version control systems
- D. Performing regular manual inspections

Answer: C

Explanation:
PMI-CPMAI's treatment of AI operationalization and MLOps highlights that robust configuration management is essential to avoid inconsistency, unintended changes, and configuration drift across environments. For a predictive maintenance model deployed over many assets or sites, consistent configuration (model version, hyperparameters, thresholds, pre-processing steps, feature mappings, etc.) is critical for reliable performance and traceability.
The framework stresses that AI artifacts-code, models, configurations, and data schemas-should be managed using formal version control systems. This enables the team to track exactly which configuration was used, when it changed, who changed it, and how it relates to performance results. Version control supports reproducibility of experiments, rollback to stable versions, and standardized deployment pipelines. It also underpins governance requirements: the organization can demonstrate which versions were active at a given time if there is a failure or audit.
Automated retraining, while important for handling data drift, doesn't by itself guarantee configuration consistency; in fact, it can introduce drift if new models are deployed without proper versioning. Manual inspections are error-prone and non-scalable.
"Frequent algorithm operationalizations" is not a control mechanism, but a potential source of inconsistency. Therefore, the method that directly addresses configuration consistency and drift is utilizing version control systems for the model and its configuration.

NEW QUESTION # 45

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. Exploratory data analysis (EDA)
- C. Advanced data labeling methods
- D. Data augmentation strategies

Answer: B

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 # 46

An AI project team needs to consider compliance with data regulations and explainability standards as requirements for a new AI solution.

At what point in the project should the requirements be approached?

- A. As optional guidelines based on project scope
- B. As part of the final testing phase
- C. As part of the data preparation phase
- D. As part of the business understanding phase

Answer: D

Explanation:

In PMI-CP/CPMAI-aligned practice, compliance requirements such as data protection regulations (e.g., privacy laws, data residency) and explainability standards are treated as business and regulatory constraints, not as late technical details. They must therefore be identified and incorporated during the business understanding phase. At this stage, the project manager and stakeholders clarify the problem statement, success criteria, risk appetite, and constraints under which the AI solution must operate. That includes explicitly stating: which regulations apply, what level of transparency or explainability is required, which stakeholders must be able to understand model outputs, and which decisions must remain under human control.

By capturing these requirements early, they directly influence the choice of AI pattern, model families, data sources, architecture, and governance mechanisms. If these constraints are postponed until data preparation or final testing, the team risks discovering that the chosen models are too opaque, the data cannot legally be used as collected, or additional documentation and controls are needed that fundamentally change scope and timeline. CPMAI stresses that responsible AI and regulatory compliance are "built in from the beginning," so the correct point to approach these requirements is the business understanding phase.

NEW QUESTION # 47

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