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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	• 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	• 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 4	• 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.
Topic 5	• 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.

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PMI Certified Professional in Managing AI Sample Questions (Q24-Q29):

NEW QUESTION # 24
A project manager is overseeing the quality assurance and quality control of an AI/machine learning (ML) model. The model has been trained and initial tests have shown promising results. However, the project manager is concerned about the long-term performance and reliability of the model in real-world scenarios.
What should the project manager do?

- A. Establish continuous monitoring and feedback loops
- B. Perform a comprehensive hyperparameter tuning
- C. Set up cross-validation with a larger dataset
- D. Implement additional data augmentation techniques

Answer: A

Explanation:
PMI-CPMAI stresses that AI/ML models are not "one-and-done" artifacts; they must be managed across an operational lifecycle, including continuous monitoring, feedback, and improvement. The exam outline for CPMAI/PMI-CPMAI explicitly includes tasks such as monitoring deployed AI systems, detecting performance drift, and adapting models to changing data and business conditions. Initial promising test results only indicate that the model works under current test conditions. In real-world environments, data distributions, usage patterns, and operating contexts evolve. Without ongoing monitoring and feedback loops, the project manager cannot reliably detect degradation (e.g., accuracy drop, bias drift, latency issues) or emerging risks. PMI-aligned AI lifecycle practices emphasize setting up metrics, alerts, logging, human-in-the-loop review where appropriate, and structured mechanisms to feed production insights back into retraining or re-engineering efforts.
Options A, C, and D (hyperparameter tuning, larger cross-validation, data augmentation) are valuable development-phase techniques, but they do not address long-term, in-production reliability. PMI-CPMAI focuses on operationalization and value realization, making establishing continuous monitoring and feedback loops (option B) the correct action to protect long-term performance and trustworthiness.

NEW QUESTION # 25
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. Data augmentation strategies
- D. Advanced data labeling methods

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 # 26
A financial services firm is operationalizing an AI-driven fraud detection system. The project manager needs to ensure the tool complies with relevant data privacy laws while providing secure data access to only authorized personnel.
What is an effective technique to address these requirements?

- A. Developing a comprehensive data classification policy (DCP)
- B. Utilizing role-based access control (RBAC) to limit data access
- C. Conducting a privacy impact assessment (PIA) to identify risks
- D. Implementing real-time data verification (RTDV) processes

Answer: B

Explanation:
In an AI-driven fraud detection context, PMI-CP/CPMAI guidance on data governance stresses that compliance with privacy laws and the principle of "least privilege" must be enforced with technical access controls as well as policies. While a data classification policy and privacy impact assessments are important, they mainly describe and analyze risks; they do not by themselves prevent unauthorized access.
An effective technique that directly addresses "secure data access to only authorized personnel" is role-based access control (RBAC). RBAC ties access rights to defined roles (e.g., fraud analyst, data scientist, auditor), ensuring that users see only the data necessary for their job and nothing more. This supports compliance with privacy regulations that require data minimization, access limitation, and accountability. It also provides an auditable structure for who can access what, which is critical during regulatory reviews or incidents.
Within AI projects, RBAC should be applied across data stores, model monitoring dashboards, and operational interfaces so that sensitive transaction and identity data are protected end to end. Therefore, among the options presented, utilizing role-based access control (RBAC) to limit data access is the most direct and effective technique to satisfy both legal compliance and secure, authorized-only access.

NEW QUESTION # 27
A project manager is tasked with ensuring that an AI project complies with data regulations before data collection begins. This involves identifying all necessary requirements for trustworthy AI, including ethical considerations, privacy, and transparency.
What should the project manager do first?

- A. Schedule a meeting with stakeholders to discuss potential data collection compliance issues

- B. Develop a high-level strategy for data collection and aggregation
- C. Draft a detailed data governance framework to be reviewed later
- D. Perform a comprehensive assessment of data regulations and compliance requirements

Answer: D

Explanation:
For AI projects handling regulated data (such as financial or personal information), PMI-aligned guidance for Managing AI emphasizes that regulatory and compliance requirements must be understood upfront, before data is collected, processed, or shared. The very first step is to perform a comprehensive assessment of data regulations and compliance requirements across all applicable jurisdictions (e.g., privacy laws, banking/financial regulations, sectoral rules, cross-border data transfer constraints, retention rules, and consent requirements).
This assessment provides the foundation for trustworthy AI, because ethical principles, privacy safeguards, transparency mechanisms, and accountability structures must map directly to concrete legal and regulatory obligations. Only when these requirements are clearly identified can the project manager design an appropriate data governance framework, define lawful bases for processing, set access controls, and specify documentation and audit-trail expectations.
Drafting governance (option B), stakeholder meetings (option C), or high-level data collection strategies (option D) are useful later steps, but if they are done before a regulatory and compliance assessment, they risk misalignment with the law and may require costly rework. Therefore, in line with PMI-CPMAI's focus on responsible and compliant AI lifecycle management, the project manager should first perform a comprehensive assessment of data regulations and compliance requirements.

NEW QUESTION # 28
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. Utilizing data lineage tools to track data origin and transformations
- C. Implementing a blockchain-based ledger for transaction data
- D. Employing a federated database system for decentralized data access

Answer: B

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 # 29
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