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PMI PMI-CPMAI Exam Syllabus Topics:

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

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PMI Certified Professional in Managing AI Sample Questions (Q96-Q101):

NEW QUESTION # 96
An aerospace company is evaluating whether their sensor data meets the requirements for an AI-based predictive maintenance system. The project team needs to ensure that the data's accuracy, resolution, and timeliness are adequate to predict equipment failures.
Which method addresses the requirements?

- A. Performing a data quality assessment focusing on precision and latency
- B. Analyzing data completeness and conducting feature engineering
- C. Evaluating the data schema and integrating additional data sources
- D. Implementing a data governance framework to ensure compliance

Answer: A

Explanation:
For an AI-based predictive maintenance system, PMI-CPMAI-aligned practices emphasize that the fitness of the data for the AI task must be validated in terms of accuracy, resolution, and timeliness before committing to model development. In the context of sensor data, this means confirming that measurements are precise enough to detect early degradation, sampled at a sufficient frequency to capture relevant patterns (resolution), and delivered with low delay so predictions are actionable (latency). A data quality assessment focused on precision and latency directly addresses these concerns by examining how close sensor readings are to true values, how stable they are over time, and how quickly the data flows from the equipment into the AI pipeline.
PMI-CPMAI guidance on data readiness for AI systems stresses profiling and testing data for measurement error, noise levels, sampling intervals, and end-to-end delivery lag before deciding if data is suitable for predictive models. Activities like schema review or feature engineering are important but come after confirming that raw data quality (especially precision and latency) meets the minimum requirements. Implementing governance frameworks or adding more sources does not, on its own, validate whether the existing sensor data is accurate and timely enough. Therefore, the method that best addresses the stated requirements is performing a data quality assessment focusing on precision and latency.

NEW QUESTION # 97
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. Reevaluate the business objectives and outcomes
- C. Focus on the model's ethical implications
- D. Increase the training data volume

Answer: B

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 # 98
A team needs to identify which parts of the project they are working on will require AI and which will not. In addition, they need to determine technology and data requirements.
Which method should be used?

- A. Detailed data mapping
- B. Technical feasibility assessment
- C. Components-based analysis

Answer: C

Explanation:
PMI-CPMAI describes a very practical early-stage activity: breaking down a solution into components or sub-functions and then deciding which components actually require AI and which do not. This is often referred to as a components-based analysis. The idea is to decompose the overall workflow or product into units such as data ingestion, preprocessing, prediction, rule-based decisioning, user interface, reporting, and integration layers.
For each component, the team asks:
Does this require cognitive capability (learning from data, pattern recognition, probabilistic reasoning)?
Or can it be handled by conventional software, rules, or existing systems?
At the same time, they identify technology and data requirements: data sources, data quality, storage, pipelines, compute needs, and integration points for each AI-relevant component. PMI-CPMAI ties this directly into later tasks such as technical feasibility, architecture design, and MLOps planning.
Detailed data mapping (option A) is useful but focuses mainly on information flows, not necessarily on AI vs non-AI partitioning. Technical feasibility assessment (option B) evaluates whether a proposed AI approach is realistic but presumes that the AI portions are already identified. Only components-based analysis (option C) simultaneously answers "which parts need AI, which do not, and what are the tech/data needs for each?", which matches the scenario precisely.

NEW QUESTION # 99
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. Fill missing values with zeros without analysis
- B. Duplicate existing data to fill in missing gaps
- C. Remove records with missing values if minimal
- D. Ignore missing data if it seems insignificant

Answer: C

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 A) 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 D) is the most effective and responsible approach among the given choices.

NEW QUESTION # 100
A financial services firm is assessing the success of a newly operationalized AI system for fraud detection. The project manager needs to evaluate the model against business key performance indicators (KPIs).
What is an effective method to help ensure the accuracy of this evaluation?

- A. Consulting with external experts and auditors
- B. Utilizing a diverse set of validation techniques
- C. Reviewing quarterly business financial reports
- D. Implementing a single comprehensive metric

Answer: B

Explanation:
PMI-CPMAI guidance on evaluating operational AI systems, especially in risk-sensitive domains like fraud detection, stresses that project managers must link model performance to business KPIs using multiple complementary evaluation methods, not a single metric. The material explains that fraud models have asymmetric costs (false positives vs. false negatives), evolving fraud patterns, and complex business impacts, so "no single measure is sufficient to characterize business value or risk." Instead, teams are encouraged to use a diverse set of validation techniques, such as holdout and cross-validation, backtesting on historical periods, confusion matrices, cost/benefit-weighted metrics, and A/B or champion-challenger tests in production-like environments.
PMI-CPMAI also notes that evaluation should combine technical metrics (precision, recall, ROC/AUC, F1, lift) with business-oriented indicators (fraud losses avoided, investigation workload, customer friction, and regulatory or compliance thresholds). Using multiple techniques allows the project manager to check consistency across views and avoid being misled by a single "good-looking" number that hides harmful side effects. Relying on quarterly financial reports or external experts alone does not provide the granular, model-specific insight required, and a single comprehensive metric contradicts PMI's emphasis on multidimensional evaluation.
Therefore, to ensure an accurate and reliable assessment of the AI fraud system against business KPIs, the most effective method is utilizing a diverse set of validation techniques.

NEW QUESTION # 101
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