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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	• 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 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	• 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.

PMI Certified Professional in Managing AI Sample Questions (Q86-Q91):

NEW QUESTION # 86
A financial services firm is implementing AI models to automate fraud detection. The project manager needs to ensure the models comply with regulatory standards and ethical guidelines while maintaining performance and accuracy.
Which action should the project manager take?

- A. Focus solely on model accuracy, ignoring compliance
- B. Assume compliance without formal verification
- C. Implement bias detection and mitigation strategies
- D. Use any available data without checking for consent

Answer: C

Explanation:
PMI-CPMAI places responsible AI, regulatory compliance, and ethical alignment on equal footing with performance and accuracy, especially in highly regulated sectors like financial services. Fraud detection models often operate on sensitive financial and personal data and can materially impact customers if they are biased or systematically unfair.
The PMI-CPMAI guidance on risk, ethics, and governance emphasizes that project managers must ensure AI systems are evaluated not only on predictive quality but also on fairness, bias, transparency, and explainability. A core expectation is that teams implement bias detection and mitigation strategies across the AI lifecycle: examining training data for representational bias, testing model outputs for disparate impact across customer segments, and applying corrective techniques such as rebalancing, re-weighting, or constraint-based training.
Focusing solely on accuracy (option A) contradicts responsible AI principles and can institutionalize harmful patterns. Using any available data without consent (option C) violates data protection and ethical standards. Assuming compliance without formal verification (option D) fails governance and auditability requirements. By contrast, implementing bias detection and mitigation strategies directly addresses regulatory and ethical concerns, while also supporting robust, trustworthy performance. It operationalizes responsible AI practices in line with PMI-CPMAI expectations, ensuring the fraud models are both effective and compliant.

NEW QUESTION # 87
An organization is considering deploying an AI solution to automate a repetitive and mundane task that is currently performed by employees. They need to ensure that the AI solution is scalable and can handle increasing volumes of work without becoming too complex to manage.
Which method will help to ensure scalability?

- A. Utilizing a traditional software solution with regular performance monitoring
- B. Implementing a rule-based approach with extensive manual updates
- C. Developing a cognitive solution using natural language processing

- D. Establishing a semiautomated process combining AI and human oversight

Answer: A

Explanation:
PMI-CPMAI emphasizes a key principle: if a repetitive, deterministic, well-understood task can be handled by traditional software or automation, that option is often more scalable, less complex, and easier to govern than an AI solution. Before defaulting to AI, project managers are encouraged to assess whether rule-based or conventional automation will already meet current and future workload demands.
For a repetitive and mundane task, a traditional software solution with performance monitoring (option B) can scale horizontally (more instances, more servers) with relatively predictable behavior. It reduces lifecycle complexity: no model training, no drift, no retraining pipelines, and simpler testing and validation. PMI-CPMAI materials describe that this kind of noncognitive automation is frequently the most robust, maintainable, and cost-effective approach, especially when the logic is stable and the environment is not rapidly changing.
Options A and C introduce more complexity than needed: cognitive NLP or heavily manual rule updates add maintenance burden and reduce scalability. Option D (semiautomated with AI and human oversight) is useful for higher-risk cognitive tasks but not ideal when the primary goal is simple high-volume scalability for a mundane process. Therefore, the most appropriate method to ensure scalability while avoiding unnecessary complexity is to utilize a traditional software solution with regular performance monitoring.

NEW QUESTION # 88
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. Exploratory data analysis (EDA)
- B. Data augmentation strategies
- C. Advanced data labeling methods
- D. Detailed cost-benefit analysis

Answer: A

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 # 89
A project team is currently evaluating an AI solution. They need to ensure the machine learning model provides the expected business benefits.
Which critical factor should the project manager assess?

- A. Volume of training data
- B. Alignment with key performance indicators
- C. Maximization of model interpretability
- D. Minimization of human intervention

Answer: B

Explanation:
PMI-CPMAI consistently stresses that AI initiatives must be evaluated not just on technical metrics but on business value and

outcomes. To ensure the machine learning model provides the expected business benefits, the project manager must verify that model performance is directly aligned with key performance indicators (KPIs) that were defined with stakeholders earlier in the project.
Within the PMI-CPMAI structure, KPIs link the problem statement and objectives (e.g., cost reduction, increased revenue, fewer failures, faster processing) to measurable AI outputs. This means: selecting the right performance metrics, setting thresholds, and confirming that improvements in those metrics correlate with real-world business gains. For example, in a financial, operational, or customer-focused AI system, the model's precision, recall, or uplift must translate into concrete improvements such as reduced churn, fewer false alerts, more accurate predictions, or improved customer satisfaction.
Maximizing interpretability (A), minimizing human intervention (C), or increasing training data volume (D) may be beneficial in some contexts, but they are means, not ends. PMI-CPMAI guidance is clear that decision-makers care primarily about whether the AI solution advances strategic objectives and measurable KPIs. Therefore, the critical factor the project manager should assess is the alignment of the AI solution's performance with key performance indicators (KPIs).

NEW QUESTION # 90
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. Reviewing quarterly business financial reports
- B. Utilizing a diverse set of validation techniques
- C. Consulting with external experts and auditors
- 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 # 91
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