PMI-CPMAI試験の準備方法 |検証するPMI-CPMAI資格準備試験 |有難いPMI Certified Professional in Managing AI無料試験

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PMI PMI-CPMAI 認定試験の出題範囲:

トピック	出題範囲
トピック 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.
トピック 2	• 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.
トピック 3	• 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.
トピック 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.}

トピック 5	• 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.
トピック 6	• 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.

PMI Certified Professional in Managing AI 認定 PMI-CPMAI 試験問題 (Q76-Q81):

質問 # 76
During the configuration management of an AI/machine learning (ML) model, the team has observed inconsistent performance metrics across different test datasets.
What will cause the inconsistency issue?

- A. Overfitting the training data
- B. Insufficient model complexity
- C. Low variance in the test results
- D. Incorrect data preprocessing steps

正解：D

解説：
PMI-CPMAI highlights data pipelines and preprocessing as critical components of AI/ML configuration management. A core principle is that all evaluation datasets must be processed through consistent, validated preprocessing steps (cleaning, normalization, feature engineering, encoding, etc.). If different test datasets experience different preprocessing logic, parameter settings, or transformations, performance metrics will naturally appear inconsistent, not because of the model itself but because the inputs are not comparable.
The guidance notes that configuration management for AI must track not only model versions but also data transformations, feature pipelines, and parameter settings. Inconsistent metrics across test datasets are a classic symptom of mismatched preprocessing, such as applying different scaling, missing-value handling, text tokenization, or feature selection strategies across datasets. Overfitting and model complexity affect generalization, but typically manifest as consistently poor performance on out-of-sample data, rather than erratic metrics between test sets prepared correctly.
Therefore, when a team observes inconsistent performance metrics across different test datasets, PMI-CPMAI would direct them to first check whether the data preprocessing steps are implemented correctly and consistently across those datasets. The likely cause of the inconsistency issue is incorrect (or inconsistent) data preprocessing steps.

質問 # 77
An organization is planning their digital transformation initiatives by building an AI solution to focus on data-collection needs. The goal is to reduce the manual handling of data.
Which approach should be prioritized to achieve the objective?

- A. Enhancing the current database infrastructure to handle larger volumes of data
- B. Implementing intelligent systems that can autonomously process and analyze data
- C. Outsourcing data-processing tasks to third-party vendors
- D. Upgrading cloud storage solutions for better data management

正解：B

解説：
In PMI-CP-aligned AI program guidance, when an organization's goal is to reduce manual handling of data, the focus is on automation of data intake, processing, and basic analysis rather than simply scaling storage or outsourcing tasks. The most appropriate strategy is to implement intelligent systems that can autonomously process and analyze data. Such systems may include automated data pipelines, intelligent document processing, and AI-driven extraction and transformation services that remove repetitive manual steps.
Option B directly addresses this by creating an AI solution that can ingest, validate, structure, and summarize data with minimal human intervention. This not only reduces manual workloads but also shortens cycle times, improves consistency, and lowers the risk of human error. Outsourcing data-processing tasks (option A) still relies on human labor, just in another organization, and does not achieve true digital transformation. Enhancing database infrastructure (option C) or upgrading cloud storage (option D) improves capacity and reliability, but does not inherently reduce manual handling-they are enabling technologies, not automation mechanisms.
From an AI management perspective, a transformation initiative should prioritize intelligent automation of the data lifecycle, and that is best captured by implementing systems that autonomously process and analyze data as described in option B.

質問 # 78
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. Implement additional data augmentation techniques
- C. Perform a comprehensive hyperparameter tuning
- D. Set up cross-validation with a larger dataset

正解：A

解説：
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.

質問 # 79
A project manager is considering different project management approaches for an AI solution deployment. They need to ensure the approach allows for iterative improvements and accommodates changing requirements.
Which approach is effective in this situation?

- A. Hybrid
- B. Incremental
- C. Predictive
- D. Adaptive/agile

正解：D

解説：
PMI-CPMAI emphasizes that AI projects typically involve uncertainty, experimentation, and evolving requirements. Data can change, model behavior must be tuned, and stakeholders may refine success criteria as they see early results. Because of this, PMI frames AI work as well-suited to adaptive/agile approaches that support short iterations, continuous learning, and rapid feedback loops.
In an adaptive/agile approach, the team plans in smaller increments, regularly reprioritizes the backlog, and refines scope based on empirical evidence from model experiments and pilots. This allows them to update features, retrain models, and adjust data or architecture as new insights are gained. PMI-CPMAI links this directly to AI lifecycles, where experimentation, evaluation, and deployment are repeated cycles rather than one-off phases.
Predictive approaches are more rigid and assume stable, knowable requirements upfront, which is rarely realistic for AI behavior and data-driven insights. Incremental and hybrid can add some flexibility, but adaptive/agile is the explicit choice in PMI's guidance when iterative improvement and changing requirements are primary concerns. Therefore, the most effective approach for an AI solution deployment in this context is adaptive/agile.

質問 # 80
A healthcare project manager is evaluating whether to implement an AI-powered diagnostic tool. The initial cost is US$500,000 with an expected return on investment (ROI) of 15% within the first year. The project needs to satisfy multiple stakeholders including hospital administrators and medical staff.
Which method will maximize a positive ROI for the AI implementation?

- A. Seeking verbal commitments from interested parties at each project phase
- B. Acquiring alternatives to the AI solution as a contingency plan
- C. Monitoring AI model performance against key performance indicators
- D. Ensuring all AI and non-AI components are integrated seamlessly

正解：C

解説：
In PMI-CPMAI, realizing a positive ROI from AI is not just about an attractive business case at the start; it depends on continuous monitoring of value delivery against clearly defined performance and outcome metrics. For a healthcare AI diagnostic tool with a specified ROI target (15% in the first year) and multiple stakeholders (administrators and clinicians), the project manager must ensure the tool is actually achieving the predicted improvements in practice.
The framework recommends defining key performance indicators (KPIs) aligned to the value proposition-such as diagnostic accuracy for specific conditions, time-to-diagnosis, reduction in unnecessary tests, throughput, and impact on patient outcomes-and then monitoring the AI model's performance against those KPIs over time. By tracking these metrics, the team can identify drifts, bottlenecks, or workflow issues and take corrective action (retraining, process changes, configuration updates) to protect and maximize ROI.
Seamless integration (option A) is important but is a means, not the main mechanism to ensure ROI is realized. Contingency solutions and verbal commitments do not directly drive financial outcomes. PMI-CPMAI's value-focus makes ongoing performance monitoring against KPIs the most effective method to maximize and protect the expected ROI.

質問 # 81
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