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PMI PMI-CPMAI Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> 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 2	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 4	<ul style="list-style-type: none"> 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 CPMIAI methodology supports responsible and effective project execution, helping candidates understand how to guide AI projects ethically and successfully from planning to delivery.
Topic 5	<ul style="list-style-type: none"> 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 Sample Questions (Q76-Q81):

NEW QUESTION # 76

During the evaluation of an AI solution, the project team notices an unexpected decline in model performance. The model was previously achieving high accuracy but has recently shown increased error rates.

Which action will identify the cause of the performance decline?

- A. Checking for issues in the data preprocessing pipeline that may have introduced noise
- B. Increasing the amount of regularization to prevent overfitting
- C. Reviewing recent changes made to the model's architecture and parameters
- D. Analyzing the distribution of real-world data for potential shifts

Answer: D

Explanation:

In the PMI-CP in Managing AI guidance, monitoring and diagnosing AI model performance is framed as a lifecycle responsibility, not a one-time task. When a model that previously performed well suddenly shows increased error rates, PMI emphasizes first checking for data drift and concept drift—that is, changes in the distribution or meaning of the real-world input data compared with the data the model was trained and validated on. The material explains that teams should "systematically compare current production data distributions with training and validation distributions to detect shifts that may degrade model performance, even when the model architecture has not changed." This is because many performance issues in production are driven not by the model code itself, but by changes in user behavior, population characteristics, upstream systems, or environmental conditions. By analyzing the distribution of real-world data for potential shifts, the project team can determine whether the cause is data drift, data quality issues, or a change in the underlying patterns the model is supposed to learn. Only once this is understood should they proceed to architectural changes, hyperparameter tuning, or retraining strategies. Therefore, the action that best identifies the root cause of the performance decline is to analyze the distribution of real-world data for potential shifts.

NEW QUESTION # 77

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

Answer: B

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 # 78

An AI project team in the healthcare sector is tasked with developing a predictive model for patient readmissions. They need to gather required data from various sources, including electronic health records (EHR), patient surveys, and clinical notes. The team is evaluating which technique will help to ensure the data is comprehensive and reliable.

What is an effective technique the project team should use?

- A. Using federated learning to train models across decentralized data sources without centralizing data
- B. Utilizing real-time data integration from EHR systems to ensure data freshness
- C. Implementing data augmentation techniques to enhance dataset diversity
- **D. Employing natural language processing (NLP) to extract relevant data from clinical notes**

Answer: D

Explanation:

In the PMI-CPMAI body of knowledge, healthcare AI initiatives are repeatedly framed as data-intensive efforts that must integrate heterogeneous sources such as EHRs, patient-reported outcomes, and unstructured clinical narratives. The guidance stresses that "unstructured sources, including physician notes and narrative reports, often contain critical clinical context that will not appear in structured fields," and that project teams must use techniques that can reliably extract this information into analysis-ready form to achieve completeness and reliability of the dataset. This is where natural language processing (NLP) is highlighted as a key enabler: by systematically parsing and extracting diagnoses, treatments, comorbidities, timelines, and outcomes from free-text clinical notes, NLP makes these rich but messy data usable alongside structured EHR fields and survey data.

PMI-CPMAI also emphasizes that simply adding more data or distributing training (such as data augmentation or federated learning) does not guarantee that the underlying data are comprehensive; what matters is that all relevant signals are captured and normalized across modalities. NLP directly supports this by converting unstructured text into standardized features, reducing omissions and manual abstraction errors. Real-time EHR integration improves freshness, but not necessarily coverage across all sources. Therefore, to ensure the data is comprehensive and reliable for a readmission prediction model, employing NLP to extract relevant data from clinical notes is the most effective technique among the options.

NEW QUESTION # 79

A logistics company is operationalizing an AI system to improve delivery times. The project team needs to identify performance

constraints that may impact the AI solution.

Which method should the project manager use to meet the team's objective?

- A. Training employees on AI ethics
- B. Benchmarking against competitors
- **C. Conducting a preliminary feasibility study**
- D. Implementing advanced data visualization tools

Answer: C

Explanation:

When operationalizing an AI system to improve delivery times, PMI-style AI project guidance stresses the importance of identifying constraints and assumptions early, before heavy investment in build-out. A preliminary feasibility study is the standard method to surface key performance constraints that might impact the AI solution. This includes analyzing current logistics processes, data availability and latency, network conditions, service-level expectations (e.g., maximum response times for route optimization), infrastructure capacity, and integration limits with existing systems.

A feasibility study helps the team clarify: what throughput is required, how frequently predictions must be updated, what real-time vs. batch constraints exist, and whether current hardware, APIs, and data pipelines can support those requirements. This aligns with PMI-CPMAI's emphasis on evaluating technical, data, and organizational readiness before committing to full-scale deployment. Benchmarking competitors (option A) may highlight external performance targets but does not systematically uncover the internal constraints. Implementing advanced visualization tools (option B) can help later with monitoring and communication but does not, by itself, identify constraints. Training employees on AI ethics (option D) is valuable from a governance standpoint, yet it does not address performance limitations. Thus, the method that directly meets the objective of identifying performance constraints is to conduct a preliminary feasibility study.

NEW QUESTION # 80

A company plans to operationalize an AI solution. The project manager needs to ensure model performance is meeting selected thresholds before release.

What is an effective way to confirm these thresholds before this release?

- A. Running multiple end-user acceptance tests
- B. Conducting a series of penetration tests
- **C. Testing against validation datasets**
- D. Implementing an impact evaluation

Answer: C

Explanation:

Before operationalizing an AI model, PMI-CPMAI emphasizes confirming whether the model meets predefined performance thresholds using well-governed evaluation datasets. This is done by testing against validation (and/or test) datasets that are distinct from the training data and representative of real-world conditions. These datasets allow the team to compute agreed metrics—such as accuracy, precision, recall, F1, AUC, or domain-specific KPIs—and compare them directly against acceptance criteria defined earlier with stakeholders.

The PMI framework stresses traceability from business objectives → requirements → metrics → thresholds → evaluation results. Validation testing is where this chain is concretely confirmed: if the model consistently meets or exceeds thresholds on held-out data, it is a strong indicator that it is ready for controlled release. Impact evaluation (option B) is more appropriate once the model is in pilot or production, focusing on business outcomes. End-user acceptance tests (option C) mainly address usability and workflow fit, not detailed model performance. Penetration tests (option D) address security rather than predictive quality.

Thus, to confirm that model performance meets selected thresholds before release, the most effective method is testing against validation datasets (option A).

NEW QUESTION # 81

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