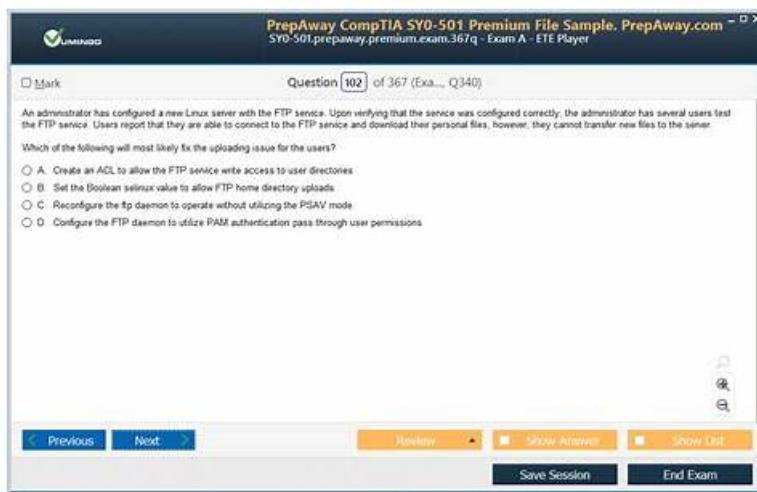


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PMI PMI-CPMAI Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.
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">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.

Topic 5	<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 6	<ul style="list-style-type: none"> 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.

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PMI Certified Professional in Managing AI Sample Questions (Q76-Q81):

NEW QUESTION # 76

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

Answer: A

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 # 77

A development team is tasked with creating an AI system to assist physicians with diagnosing medical conditions. They encountered cases where symptoms do not always lead to well-defined diagnoses.

Which approach should the project manager integrate to handle the inherent uncertainty?

- A. Implement a more complex retrained model

- B. Increase the number of input variables
- **C. Keep a human in the loop with all decision-making**
- D. Enhance the knowledge base with more detailed rules

Answer: C

Explanation:

For AI systems supporting high-stakes medical decisions, PMI-CP/CPMAI and responsible AI guidance emphasize human-in-the-loop oversight as the primary way to manage inherent uncertainty and risk. In clinical diagnosis, symptoms are often ambiguous, overlapping across multiple conditions, and influenced by patient history and context. No matter how advanced the model, there will be edge cases, rare diseases, and conflicting signals.

Rather than attempting to eliminate uncertainty purely through more complex models, more input variables, or ever-growing rule sets, best practice is to design the AI as a decision-support tool, not an autonomous decision-maker. That means physicians retain ultimate responsibility, reviewing AI suggestions, over-riding them when clinically necessary, and using their expertise to weigh patient-specific factors the model may not capture.

Human-in-the-loop design also supports explainability and trust: clinicians can question outputs, cross-check with other evidence, and provide feedback that can be used later for model improvement. CPMAI's lifecycle framing for regulated and safety-critical domains is clear: when outcomes materially affect health or life, the appropriate way to handle uncertainty is to keep a human in the loop for all decision-making, which aligns directly with option A.

NEW QUESTION # 78

A logistics company wants to optimize its delivery routes while adapting to real-time traffic conditions.

Which AI pattern or patterns meet these goals?

- A. Automation and rule-based systems
- B. Conversational
- **C. Predictive analytics**
- D. Recognition and content summarization

Answer: C

Explanation:

Within CPMAI and PMI's AI pattern framing, predictive analytics is the pattern that focuses on using historical and real-time data to forecast future states-exactly what is needed for route optimization under changing traffic conditions. For a logistics company, the AI system must estimate future travel times, congestion levels, delays, and likely delivery windows. These predictions are then used as inputs to optimization logic that chooses the best routes and adjusts them dynamically as new data arrives.

Recognition/summarization patterns focus on classification or extracting meaning from content (such as images or text), while conversational patterns are aimed at dialog systems like chatbots. Automation and rule-based systems can encode fixed routing rules, but they cannot by themselves learn patterns from historical traffic and adapt to evolving conditions. PMI/CPMAI guidance highlights that when the business problem involves forecasting outcomes to inform better decisions, the appropriate AI pattern is predictive analytics-often implemented with regression, time-series models, or more advanced learning approaches. Therefore, for optimizing delivery routes while adapting to real-time traffic, the correct pattern is predictive analytics, making option C the appropriate choice.

NEW QUESTION # 79

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

Answer: B

Explanation:

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.

NEW QUESTION # 80

A capital markets firm is exploring the use of AI to enhance its trading algorithms. The firm expects the AI solution will increase trading accuracy and profitability. The project manager needs to create a business case to justify the AI investment.

Which method will provide results that meet the firm's goals and objectives?

- A. Conducting a market trend analysis
- B. Performing a scenario analysis
- C. Consulting with AI vendors
- D. **Developing a financial impact assessment**

Answer: D

Explanation:

Within PMI-CPMAI's treatment of AI business cases, the core expectation is that the project manager demonstrates clear, quantifiable value aligned with organizational goals. For a capital markets firm whose objectives are improved trading accuracy and profitability, the most suitable method is to develop a financial impact assessment that translates AI benefits into measurable financial terms. This assessment typically compares the current trading performance (baseline) with projected AI-enhanced performance, estimating impacts on revenues, margins, risk-adjusted returns, and operational costs.

PMI's AI-oriented business case guidance emphasizes that decision makers need a structured view of costs, benefits, risks, and assumptions, expressed in financial metrics such as net benefit, payback period, ROI, or expected value under uncertainty. Market trend analyses and vendor consultations can inform context and options but do not directly quantify how the AI solution improves trading results. Scenario analysis can support stress testing and complement the financial view, yet the central artifact that "meets the firm's goals and objectives" for funding decisions is a financial impact assessment tied to accuracy and profitability. Thus, the method that best satisfies the firm's needs is developing a financial impact assessment.

NEW QUESTION # 81

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