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PMI PMI-CPMAI Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 3	• 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.

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PMI Certified Professional in Managing AI Sample Questions (Q91-Q96):

NEW QUESTION # 91
An aerospace company is integrating AI for predictive maintenance. The project manager is concerned about potential delays due to external dependencies.
Which initial step should the project manager take?

- A. Increase resource allocation
- B. Implement just-in-time inventory
- C. Establish contingency plans
- D. Engage with multiple suppliers

Answer: D

Explanation:
Within the PMI Certified Professional in Managing AI (PMI-CPMAI) framework, managing external dependencies is a core component of AI project risk management, especially for industries such as aerospace where supply chains and component availability can significantly affect timelines. PMI emphasizes that external dependency risks-such as reliance on specialized hardware, sensors, cloud services, or third-party data streams-must be addressed proactively to ensure uninterrupted AI system development and deployment.
The PMI-CPMAI Risk and Dependency Management section states that AI project managers should "identify and stabilize critical external inputs early in the lifecycle, particularly when those dependencies are single-source or highly specialized." It further highlights that mitigation begins with "diversifying suppliers or service providers to reduce the probability of bottlenecks or delays caused by external parties." This approach not only reduces vulnerability but also improves resilience and reduces procurement-related schedule risks.
Although increasing internal resources (A) or implementing just-in-time inventory (B) may optimize internal operations, they do not mitigate dependency on external providers. Establishing contingency plans (C) is important but is not the initial action; PMI guidance is clear that risk avoidance and reduction take precedence over contingency responses. The most appropriate first step, according to PMI-CPMAI, is to "engage with multiple suppliers to ensure redundancy and reduce exposure to single-point external failures."

NEW QUESTION # 92
A healthcare organization plans to use an AI solution to predict patient readmissions. The data science team needs to identify data sources and ensure data quality.
Which method will meet the project team's objectives?

- A. Using data profiling tools to assess data completeness
- B. Setting up a continuous integration pipeline for real-time data validation
- C. Operationalizing a data catalog to maintain metadata standards
- D. Implementing data augmentation techniques to fill missing values

Answer: A

Explanation:
In PMI-CPMAI's treatment of data for AI, especially in sensitive domains like healthcare, the first responsibility of the project and data science teams is to understand and assess data quality and suitability before model development. The guidance states that AI

teams should "systematically profile candidate data sources to evaluate completeness, consistency, validity, and coverage of key populations and variables relevant to the use case." Data profiling tools are highlighted as a practical means to inspect distributions, missing values, outliers, and anomalies across structured clinical, administrative, and claims data.
For a patient readmission prediction use case, PMI-CPMAI stresses that teams must identify which sources (EHR, discharge summaries, lab results, prior admissions, demographics, social determinants, etc.) are available and then "quantify data quality metrics such as completeness and timeliness to determine whether the dataset is fit for training and deployment." While techniques such as augmentation or real-time validation might be valuable later, they build upon an initial understanding obtained via profiling. Operationalizing a catalog supports governance and discovery but does not directly satisfy the immediate need to measure data quality.
Therefore, the method that best meets the objective of identifying data sources and ensuring data quality is to use data profiling tools to assess data completeness and other quality dimensions, providing an evidence-based foundation for subsequent preprocessing, feature engineering, and model training.

NEW QUESTION # 93
An organization's leadership team is concerned about the ethical implications of operationalizing their AI model. How should the project manager address these concerns in their presentation to the team?

- A. Demonstrate the use of bias detection tools to ensure fairness
- B. Discuss the implementation of differential privacy and the algorithms used to protect data
- C. Highlight the model's high performance metrics and low error rates
- D. Explain how the AI model complies with general data protection regulation (GDPR) and other regulations

Answer: A

Explanation:
PMI-CPMAI emphasizes that ethical AI is grounded in fairness, transparency, accountability, and the mitigation of harmful or discriminatory outcomes. When organizational leadership raises concerns about the ethical implications of operationalizing an AI system, PMI instructs project managers to anchor their response in fairness assurance practices and evidence that the AI model behaves responsibly across demographic and contextual variations. The PMI Responsible AI Framework specifically states that "demonstrating mechanisms for detecting, measuring, and mitigating bias is essential in addressing ethical concerns before deployment." The guidance further clarifies that ethical risk is most directly tied to the potential for biased outputs, unfair treatment of certain populations, and unintended consequences. PMI therefore requires that project teams employ fairness audits, disparate impact analyses, and bias-detection tools during the evaluation phase. These tools provide quantifiable evidence that the AI model's decisions are equitable, transparent, and aligned with the organization's ethical commitments.
While privacy technologies (B) and regulatory compliance demonstrations (D) are important, PMI differentiates between privacy risk and ethical fairness risk. Ethical concerns expressed by leadership typically relate to potential harm, discrimination, or inequitable outcomes-issues that are addressed most directly by bias detection processes. Performance metrics (A), although useful for technical validation, do not address ethical concerns and may even obscure systematic bias if used alone.

NEW QUESTION # 94
A project manager is overseeing the transition of a company's legacy system to a new AI-driven solution. The team has identified multiple cognitive patterns required for different aspects of the system. However, the project manager is concerned about overcomplicating the transition.
Which activity should be performed first?

- A. Identify parts of the project that do not require intelligent systems
- B. Train employees on all identified cognitive patterns simultaneously
- C. Consolidate all cognitive patterns into a single iteration
- D. Establish a phased approach targeting one pattern at a time

Answer: D

Explanation:
In the PMI-CPMAI guidance on transitioning from legacy systems to AI-enabled solutions, the project manager is encouraged to control complexity and risk through incremental, phased adoption rather than attempting to introduce multiple cognitive capabilities at once. The material emphasizes that when several cognitive patterns (e.g., classification, prediction, recommendation, NLP) have been identified, "the implementation roadmap should prioritize a limited set of use cases and patterns in early iterations, validating value and technical feasibility before expanding scope." This staged approach allows the team to learn from each iteration, refine data pipelines and integration, and adjust governance and risk controls before adding more advanced or additional cognitive components.

PMI-CPMAI also highlights that overcomplication at the outset increases the chance of cost overruns, resistance to change, and technical failure, recommending that teams "sequence AI capabilities into manageable releases that deliver value quickly while minimizing disruption to existing operations." Establishing a phased approach targeting one pattern at a time directly addresses the project manager's concern: it avoids "big bang" AI deployment and enables structured change management, training, and stakeholder alignment with each step. Activities such as consolidating all patterns into a single iteration or training employees on everything at once contradict this incremental, value-focused evolution of AI capabilities. Therefore, the first activity should be to establish a phased approach focusing on one cognitive pattern at a time.

NEW QUESTION # 95
A manufacturing firm is planning to implement a network of intelligent machines to increase efficiency on the assembly line. The machines are equipped with advanced AI capabilities including precision assembly, quality control for predictive maintenance, and real-time data analysis. The intelligent machines should enhance operational efficiency, reduce downtime, and improve product quality. There needs to be seamless communication between the machines and existing systems, compliance with industry regulations, and a managed transition for the workforce.
What is a beneficial outcome of using intelligent machines in this environment?

- A. Increased vulnerability to cybersecurity threats
- B. Over-reliance on technology leading to skill degradation
- C. Higher investment costs without immediate returns
- D. Scalability and flexibility in production

Answer: D

Explanation:
In PMI-CPMAI's framing of AI-enabled automation and "intelligent machines," one of the central benefits highlighted for manufacturing environments is improved scalability and flexibility in production. When intelligent machines are equipped with AI for precision assembly, real-time quality control, predictive maintenance, and data-driven optimization, they can dynamically adjust to changes in demand, product variants, and operating conditions without requiring extensive reconfiguration.
This leads to several positive outcomes consistent with the scenario: higher throughput, reduced unplanned downtime, adaptive scheduling, and the ability to rapidly retool processes for new product lines or custom configurations. These capabilities directly support strategic goals such as operational efficiency, responsiveness, and quality improvement-key value drivers in an AI-enabled factory.
Options B, C, and D describe risks or potential downsides of intelligent machines, not beneficial outcomes: over-reliance and skill degradation (B), high upfront investment without returns (C), and increased cybersecurity vulnerability (D) are all concerns that PMI-CPMAI suggests addressing through governance, training, risk management, and security controls. However, they are not the intended advantages. The beneficial, value-aligned outcome in this context is clearly scalability and flexibility in production, making option A the correct choice.

NEW QUESTION # 96
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