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PMI Certified Professional in Managing AI Sample Questions (Q85-Q90):

NEW QUESTION # 85

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. Testing against validation datasets
- C. Implementing an impact evaluation
- D. Conducting a series of penetration tests

Answer: B

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 # 86

A telecommunications company is implementing an AI-driven customer support system. The project manager is responsible for overseeing the data evaluation. They need to ensure that the AI system provides accurate and helpful responses to customer queries. What is an effective method that helps to ensure these objectives are achieved?

- A. Relying on periodic training sessions for customer support staff to improve their understanding of the AI system
- B. **Regularly updating the AI system's knowledge base with the latest information and feedback from customer interactions**
- C. Conducting quarterly performance reviews using customer satisfaction surveys
- D. Implementing a static rule-based system alongside the AI system to handle complex customer questions

Answer: B

Explanation:

According to PMI-CPMAI's view of AI lifecycle and value realization, data and knowledge currency are essential to maintaining accuracy, usefulness, and user trust in AI-driven customer support systems. For a telecommunications company, customer queries, products, plans, and policies change frequently. If the AI system relies on outdated or incomplete information, its responses will quickly become inaccurate or unhelpful, even if the underlying model is technically sound.

PMI-CPMAI emphasizes continuous feedback loops and iterative improvement: real-world interactions should be monitored, and insights from those interactions must feed back into updating training data, rules, and knowledge artifacts. Regularly updating the AI system's knowledge base with the latest information and feedback from customer interactions directly supports these principles. It ensures that the AI reflects current offerings, known issues, resolved cases, and emerging customer needs. Customer satisfaction surveys and staff training are supportive measures but are too infrequent and indirect to guarantee response quality. A parallel static rule-based system does not address the need for current knowledge and can create inconsistency. Thus, the most effective method to ensure accurate and helpful responses is ongoing updates of the AI knowledge base informed by real customer feedback and new information.

NEW QUESTION # 87

A company's leadership team has requested insights into the AI model's ability to support decision-making processes without requiring them to understand complex technical details.

Which step should the project manager take?

- A. Discuss how ensemble methods improve the model's robustness
- B. **Demonstrate how the model's output can be integrated and used in end-user systems**
- C. Explain the role of neural network architectures in prediction accuracy
- D. Describe the model's backpropagation and gradient descent optimization

Answer: B

Explanation:

In PMI-CPMAI, a key responsibility of the AI project manager is to translate technical capabilities into business-useful decision support, especially for senior leaders who do not need (or want) deep technical model detail. The PMI-CPMAI exam content emphasizes aligning AI outputs with business processes and decision workflows across the full lifecycle, from defining the business need to operationalizing the solution in real environments. ProjectManagement Rather than explaining the mathematics of neural networks, gradient descent, or ensemble methods (options A-C), the guidance stresses demonstrating how the AI system's outputs appear in familiar tools (dashboards, reports, workflow systems) and how they can be acted upon by decision-makers. This includes clarifying inputs, key indicators, thresholds, confidence levels, exception handling, and what actions users should take based on different system recommendations.

PMI-CPMAI also links this to value realization-leaders need to see how the model's outputs are embedded in end-user systems to drive measurable outcomes, not how the algorithm is implemented. certifyera.com+1 Demonstrating integration into end-user systems (option D) directly addresses that need, supports adoption, and satisfies the framework's focus on practical, lifecycle-

oriented AI delivery.

NEW QUESTION # 88

An AI project team is assessing the scalability of a healthcare solution. Which factor should the project manager consider to help ensure the solution is scalable?

- A. Compliance with data regulations
- B. Integration with the existing infrastructure
- C. Ability to handle increased loads
- D. Human oversight requirements

Answer: C

Explanation:

Scalability in AI initiatives is defined within PMI-CPMAI as the solution's ability to maintain performance, reliability, and accuracy when subjected to increased data volume, user demand, or computational workload. The PMI AI Management Framework emphasizes that an AI system must be architected to "expand capacity, data throughput, and model processing without degradation of service quality" (PMI-CPMAI Learning Path: AI Solution Design and Implementation).

PMI further states that when assessing scalability, project managers must evaluate whether the AI system can "adapt to higher-than-forecast usage levels, larger datasets, and future feature growth using modular and distributed architectures." The official guidance notes that scalable AI solutions often rely on elastic cloud environments, containerized deployments, and horizontally scalable compute layers. This is captured in PMI's explanation that "AI performance must remain stable as demand increases, requiring testing against progressively higher loads to validate computational capacity, latency thresholds, and throughput expectations" (PMI-CPMAI: AI Technical Foundations).

The project manager's responsibility includes verifying that the model pipelines, data ingestion systems, and inferencing services continue to operate effectively under expanded operational demand. PMI stresses that this factor—ability to handle increased loads—is the cornerstone of scalability evaluation, whereas regulatory compliance, human oversight, and integration concerns, while important, relate to governance, ethics, and interoperability rather than scalability.

Therefore, the correct factor that ensures AI scalability is the solution's ability to handle increased loads.

NEW QUESTION # 89

A healthcare organization plans to develop an AI-driven diagnostic tool. To define the required data, the project manager needs to ensure data consistency and accessibility.

Which method should the project manager use?

- A. Integrating electronic health records (EHR) with AI through machine learning (ML) algorithms
- B. Performing a data quality assessment with extraction, transformation, and loading (ETL) processes
- C. Leveraging natural language processing (NLP) to standardize patient records
- D. Employing a hybrid cloud strategy for scalable data storage

Answer: B,C

Explanation:

CPMAI's Data Understanding and Data Preparation phases stress that AI success in domains like healthcare depends on robust data pipelines that ensure consistency, quality, and accessibility before modeling begins. Guidance describes these phases as profiling and assessing data, then performing cleaning, transformation, and structuring so that data are reliable and usable by downstream models.

A data quality assessment combined with ETL (extraction, transformation, loading) processes directly supports these objectives. ETL pipelines standardize formats across disparate systems, enforce validation rules, manage missing values, harmonize coding schemes (for example, diagnosis codes), and centralize data into accessible stores. This is exactly the kind of foundational work CPMAI describes as a prerequisite to effective model development, particularly in regulated sectors such as healthcare where inconsistent or inaccessible data can have clinical and regulatory consequences.

By contrast, using NLP to standardize records (B) is a specialized technique that may help later but does not replace a systematic quality and ETL process. Integrating EHR with ML algorithms (C) and designing hybrid cloud storage (D) are more about later technical integration and infrastructure than about defining and ensuring initial data consistency and accessibility. Thus, in line with CPMAI's data-centric guidance, performing a data quality assessment with ETL processes is the correct method, making option A the best answer.

NEW QUESTION # 90

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