

PMI

Exam Questions PMI-CPMAI

PMI Certified Professional in Managing AI



NEW QUESTION 1

After implementing an iteration of an AI solution, the project manager realizes that the system is not scalable due to high maintenance requirements. What is an effective way to address this issue?

- A. Switch to a rule-based system to reduce maintenance complexity.
- B. Incorporate a generative AI approach to streamline model updates.
- C. Adopt a modular architecture to isolate different system components.
- D. Utilize cloud-based solutions to enhance maintenance scalability.

Answer: C

NEW QUESTION 2

A team is running a forecasting project and wants to use previous user data to better predict future outcomes. However, the team does not have access to all the data they need.

Which action should the project manager take?

- A. Move forward in order to remain on schedule with the project
- B. Move forward while anticipating data access is given when needed
- C. An iterative approach provides the ability to return to steps as needed later on
- D. Do not move forward until access is given to all the necessary data
- E. Move forward cautiously with the understanding that there may be a need for a pause mid-project

Answer: B

NEW QUESTION 3

A project team is trying to determine the most suitable environment to operationalize their AI/machine learning (ML) solution. They need to consider various factors to help ensure a successful implementation.

What should the project manager do?

- A. Evaluate the system's scalability options
- B. Consider the cost of implementation
- C. Identify the end users and their interactions
- D. Analyze the solution's compliance requirements

Answer: C

NEW QUESTION 4

In the early stages of an AI project, the team needs to determine the types of environments and devices where the AI solution will be used. This information is crucial to ensure a successful implementation.

Which action should the project manager implement first?

- A. Perform a technical requirements audit.
- B. Hold workshops with end users to gather feedback.
- C. Conduct comprehensive user experience research.
- D. Draft a detailed usage scenario analysis.

Answer: B

NEW QUESTION 5

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

Answer: A

NEW QUESTION 6

A government project plans to implement an AI-based fraud detection system and the project team needs to define the success criteria. They identified potential improvements in detection accuracy, reduction in investigation time, and cost savings as key performance indicators (KPIs). However, they are unsure how to effectively quantify these KPIs.

Which two approaches should be used? (Choose 2)

- A. Rely on only qualitative feedback from stakeholders
- B. Implement a continuous performance monitoring system
- C. Use random benchmarks without industry comparison
- D. Establish a baseline using historical data comparisons
- E. Set fixed performance targets based on theoretical models

Answer: BD

NEW QUESTION 7

A company is evaluating whether to implement AI for a project. They have defined their business objectives and determined the AI capability they want to use. Which action will enable the project manager to move forward with the project?

- A. Implementing a preliminary version of the AI solution
- B. Identifying the contingency procedures
- C. Conducting a go/no-go assessment
- D. Conducting a data quality assessment

Answer: C

NEW QUESTION 8

An AI team is defining success criteria for a customer support chatbot. Leadership wants to approve the project but needs objective measures that reflect both business value and risk. Which set of metrics is most appropriate?

- A. Response time only
- B. User satisfaction, containment rate, escalation accuracy, and privacy/compliance incidents
- C. Number of features delivered
- D. Lines of code written

Answer: B

NEW QUESTION 9

An IT services company is verifying data quality for an AI project aimed at predicting server downtimes. The project manager needs to decide whether to proceed with data preparation.

Which technique should the project manager use?

- A. Data augmentation strategies
- B. Advanced data labeling methods
- C. Detailed cost-benefit analysis
- D. Exploratory data analysis (EDA)

Answer: D

NEW QUESTION 10

A project manager is tasked with explaining the AI model's decision-making process to the board of directors. The board members are nontechnical and require a comprehensible explanation to help ensure the model's decisions align with business objectives.

Which action should the project manager take?

- A. Use confusion matrices to demonstrate true positives, false positives, and overall model accuracy.
- B. Illustrate the decision pathway using LIME (local interpretable model-agnostic explanations) for localized interpretability.
- C. Show how precision-recall trade-offs influence decision outcomes.
- D. Present the model's ROC (receiver operating characteristic) curve and discuss the optimal threshold for decision making.

Answer: B

NEW QUESTION 10

An AI project for a financial technology client is at risk due to potential inaccuracies in data aggregation. What is the first step the project manager should take to mitigate the risk?

- A. Evaluate the data freshness and relevance
- B. Delete the suspicious data manually
- C. Understand the data characteristics
- D. Create a data visualization

Answer: C

NEW QUESTION 12

A healthcare provider is operationalizing an AI tool to assist in diagnostic processes. To ensure robust model governance, they need to address data privacy and ethical considerations.

What should the project manager do?

- A. Implement a multi-tiered DCA framework
- B. Establish a comprehensive DPMS protocol
- C. Set up a continuous CUE review process
- D. Develop a detailed privacy impact assessment (PIA)

Answer: D

NEW QUESTION 13

A project team is tasked with ensuring all AI-related decisions and actions are documented comprehensively for future auditing purposes. They need to track the reasons for specific AI choices, their impacts, and any issues encountered during the implementation.

What is represented in this situation?

- A. Operational efficiency
- B. Strategic alignment
- C. Compliance management

D. Transparency

Answer: D

NEW QUESTION 16

An AI project team is in the process of designing a security plan. The team needs to consider various aspects such as transparency, explainability, and compliance with data regulations.

Which action should the project manager take?

- A. Ensure the AI system's decisions are transparent and explainable
- B. Focus only on technical security measures, ignoring transparency
- C. Assume compliance without reviewing current regulations
- D. Rely solely on encryption without considering other security aspects

Answer: A

NEW QUESTION 21

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

NEW QUESTION 22

An AI project team with a manufacturing company needs to ensure data integrity before moving to model development. They discovered some data inconsistencies due to manual entry errors.

What is an effective method that helps to ensure data integrity?

- A. Implementing real-time data validation rules
- B. Automating data entry processes
- C. Conducting regular audits of manually entered data
- D. Using machine learning algorithms to detect and correct errors

Answer: AB

NEW QUESTION 26

A project team at an IT services company is developing an AI solution to enhance network security. They need to define the success criteria to help ensure the project achieves its desired outcomes.

What should the project manager do to define the relevant success criteria?

- A. Implement machine learning (ML) algorithms for threat prediction
- B. Use key performance indicators (KPIs) for incident response times and threat detection rates
- C. Conduct a SWOT (strengths, weaknesses, opportunities, threats) analysis of the network infrastructure
- D. Perform a detailed cost-benefit analysis of security investments

Answer: B

NEW QUESTION 29

A government agency is implementing a natural language processing (NLP) system to analyze public comments on new regulations. The project team needs to ensure the data sources are well-identified and accessible.

What is an effective method to meet the project team's objectives?

- A. Conducting a thorough data inventory audit and ensuring it is well documented
- B. Implementing an internal data catalog system
- C. Utilizing data warehousing solutions for aggregation
- D. Leveraging an existing customer relationship management (CRM) system

Answer: A

NEW QUESTION 32

The project team at an IT services company is working on an AI-based customer support chatbot. To help ensure the chatbot functions effectively, they need to define the required data.

Which method meets the project requirements?

- A. Using synthetic data generated from sample customer conversations
- B. Gathering historical customer interaction logs for training data
- C. Integrating feedback from beta customers to refine the model
- D. Developing a new script based on anticipated customer queries

Answer: B

NEW QUESTION 37

A government agency is operationalizing an AI system to optimize urban traffic flow that changes unexpectedly. The project manager needs to gather the required data from traffic cameras, sensors, and historical traffic patterns. What is an effective technique to meet the project manager's goals?

- A. Implementing real-time data synchronization to ensure up-to-date traffic analysis
- B. Utilizing data augmentation to increase the diversity of traffic scenarios
- C. Developing a probabilistic graphical model to infer latent traffic scenarios
- D. Applying dimensionality reduction to manage the complexity of traffic sensor data

Answer: A

NEW QUESTION 42

A government agency is operationalizing a new AI tool for predictive policing. The project manager needs to identify data subject matter experts (SMEs) to ensure data quality and relevance. The project team has access to historical crime data, socioeconomic data, and real-time incident reports. Which method will help in determining the data SMEs for this project?

- A. Conducting workshops to assess knowledge in real-time incident data processing
- B. Identifying individuals who have worked on similar AI tools in policing
- C. Evaluating the team's familiarity with historical crime and socioeconomic data
- D. Reviewing certifications in advanced data analytics and machine learning

Answer: C

NEW QUESTION 47

A government agency is implementing an AI-powered tool to enhance data security through anomaly detection. The project manager is assembling the team. To identify the subject matter experts (SMEs) who can provide the best insights and contributions to this project, the project manager needs to consider their experience and expertise in various technical domains. Which method will help identify the qualified data SMEs?

- A. Conducting interviews to assess their knowledge in anomaly detection
- B. Examining their expertise in neural network calibration and hyperparameter tuning
- C. Assessing proficiency in developing generative adversarial networks (GANs) and experience in successfully generating synthetic data
- D. Evaluating expertise with existing data architectures and their ability to optimize databases

Answer: D

NEW QUESTION 48

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

Answer: D

NEW QUESTION 53

A project team is evaluating whether an AI initiative should proceed beyond discovery. Stakeholders are aligned on objectives, but the team has not confirmed data access, quality, or legal constraints. What is the most appropriate next action?

- A. Begin model development using sample data
- B. Conduct a go/no-go assessment using readiness criteria
- C. Move directly to deployment planning
- D. Purchase additional compute infrastructure

Answer: B

NEW QUESTION 57

A financial services firm is assessing the success of a newly operationalized AI system for fraud detection. The project manager needs to evaluate the model against business key performance indicators (KPIs). What is an effective method to help ensure the accuracy of this evaluation?

- A. Implementing a single comprehensive metric
- B. Utilizing a diverse set of validation techniques
- C. Reviewing quarterly business financial reports
- D. Consulting with external experts and auditors

Answer: B

NEW QUESTION 59

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. Explain the role of neural network architectures in prediction accuracy
- B. Describe the model's backpropagation and gradient descent optimization

- C. Discuss how ensemble methods improve the model's robustness
- D. Demonstrate how the model's output can be integrated and used in end-user systems

Answer: D

NEW QUESTION 61

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. Perform a comprehensive hyperparameter tuning
- B. Establish continuous monitoring and feedback loops
- C. Set up cross-validation with a larger dataset
- D. Implement additional data augmentation techniques

Answer: B

NEW QUESTION 62

In an aerospace manufacturing project, engineers are preparing data to train an AI system for predictive maintenance. They need to transform the data from multiple sensors and ensure it is consistent and accurate before building the model.

What should the project manager do to handle the inconsistencies?

- A. Enhance the current data with additional sources
- B. Use data augmentation techniques to fill the gaps
- C. Implement a validation protocol for sensor data
- D. Identify and reconcile conflicting data points

Answer: CD

NEW QUESTION 66

An AI project for a financial technology client is at risk due to potential inaccuracies in data aggregation. What is the first step the project manager should take to mitigate the risk?

- A. Understand the data characteristics.
- B. Evaluate the data freshness and relevance.
- C. Delete the suspicious data manually.
- D. Create a data visualization.

Answer: A

NEW QUESTION 68

To determine if an AI solution is appropriate for an upcoming project, the project manager needs to evaluate whether the project requires a cognitive approach. What should the project manager address?

- A. Existing well-defined business objectives
- B. Estimated project cost
- C. Required level of interpretability
- D. Potential non-cognitive alternatives

Answer: D

NEW QUESTION 71

A national health insurance company is embarking on a complex AI project to assist in coordinating patient care across its multiple hospital network. The AI system will analyze large amounts of patient data to coordinate care, improve patient outcomes, and optimize resource allocation. Numerous healthcare providers' data needs to be integrated. The data includes private patient information, and the project must comply with data privacy regulations in various countries.

Which critical step should be performed to optimize representative training data?

- A. Implement comprehensive bias detection metrics
- B. Enhance the key performance indicator (KPI) metrics
- C. Improve data understanding and preparation
- D. Increase the data set size without considering diversity

Answer: C

NEW QUESTION 76

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

Answer: A

NEW QUESTION 79

An AI project team has completed an AI go/no-go assessment. They have discovered several technology and data factors to be insufficient. Which action should occur?

- A. Verify data quality and stakeholder alignment
- B. Proceed with development despite data issues
- C. Focus solely on technology upgrades, not data
- D. Launch the AI project without further assessment

Answer: A

NEW QUESTION 81

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

Answer: A

NEW QUESTION 83

A project manager is tasked with overseeing the implementation of an AI model for financial forecasting. They need to ensure the model's predictions are reliable. If the model's error rate exceeds acceptable boundaries, what will occur next?

- A. Operationalization delays due to model retraining
- B. Reduced need for human oversight since additional AI models will be used
- C. Higher than expected computational costs
- D. Increased stakeholder confidence that the project team will correct

Answer: A

NEW QUESTION 86

A project team at a healthcare provider is determining whether their patient records are adequate for an AI diagnostic tool. They need to validate that the data covers a broad spectrum of conditions and demographics.

What is an effective method to assure data suitability?

- A. Implementing a longitudinal data-gathering approach
- B. Performing demographic analysis and stratifying patient data
- C. Analyzing data variance and ensuring balanced sampling
- D. Conducting a cross-sectional study on data diversity

Answer: B

NEW QUESTION 87

A government agency is adopting an AI/machine learning (ML) model to analyze large sets of public data for policy making. It is crucial that the project team ensures the accuracy of the model's predictions.

If the project team needs to validate the model, which action should they perform?

- A. Ensure adherence to coding standards.
- B. Conduct a single comprehensive validation.
- C. Utilize a diverse set of test cases.
- D. Implement continuous integration testing.

Answer: C

NEW QUESTION 91

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