

PMI

Exam Questions PMI-CPMAI

PMI Certified Professional in Managing AI



NEW QUESTION 1

After completing an AI project, the team is compiling a final report. They observed that the AI solution did not perform well in certain environments. What is the cause for the performance issue?

- A. Misalignment of business objectives and AI capabilities
- B. Failure to conduct a thorough compatibility assessment
- C. Inadequate data preparation steps in the early phases
- D. Insufficient training of the project team members

Answer: B

NEW QUESTION 2

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 3

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 4

A team is getting ready to begin working on a machine learning project. They need to build a data preparation pipeline. A team member suggests reusing the same pipeline created for their last project.

What is wrong with this suggestion?

- A. Pipelines are pattern- and model-needs specific.
- B. There is no issue due to the fact that pipelines can be reused as needed between projects.
- C. Pipelines are pattern-needs specific; however, as long as it is the same pattern the pipeline can be reused.
- D. Pipelines are model operationalization-needs specific.

Answer: A

NEW QUESTION 5

A retail bank wants to reduce fraudulent transactions by detecting unusual card activity in near real time. Which AI capability should be used?

- A. Predictive analytics
- B. Conversational
- C. Hyperpersonalization
- D. Autonomous systems

Answer: A

NEW QUESTION 6

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 7

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 8

A transportation company is preparing data for an AI model to optimize fleet management. The project team is working with large amounts of structured and unstructured data.

If the project manager avoids addressing the variety of data during preparation, what will be the result?

- A. Improved model accuracy
- B. Increased data consistency
- C. Decreased data processing speed
- D. Reduced model performance

Answer: D

NEW QUESTION 9

During the transition to an AI solution, the project manager discovers that certain tasks may not require cognitive AI capabilities and can be handled through traditional automation methods. As a result, the project team starts segregating tasks based on their cognitive requirements.

What should the team consider?

- A. Proceeding with intelligent functionalities
- B. Applying AI capabilities for noncognitive tasks
- C. Utilizing traditional automation solutions
- D. Assessing traditional task complexity

Answer: C

NEW QUESTION 10

A financial services firm is operationalizing an AI-driven fraud detection system. The project manager needs to ensure the tool complies with relevant data privacy laws while providing secure data access to only authorized personnel.

What is an effective technique to address these requirements?

- A. Developing a comprehensive data classification policy (DCP)
- B. Utilizing role-based access control (RBAC) to limit data access
- C. Implementing real-time data verification (RTDV) processes
- D. Conducting a privacy impact assessment (PIA) to identify risks

Answer: B

NEW QUESTION 10

A government agency is using an AI system to analyze public data for policymaking decisions. The project manager needs to address risks related to data accuracy, privacy, and misuse. What represents the highest risk to the agency?

- A. The AI system is not regularly updated with new data.
- B. The AI system relies on third-party providers.
- C. User data is stored in an unsecured database.
- D. The system lacks a transparency process.

Answer: C

NEW QUESTION 12

A hospital system has been using a chatbot and has received complaints from end users. The end users believe they are speaking to a person but are frustrated when answers do not make sense.

To help ensure end users know that they are engaging with an AI chatbot, what should be considered to support transparency?

- A. Inclusion of diverse data sets
- B. Operationalize advanced algorithms
- C. Disclosure notice with each use
- D. Use of interpretable AI models

Answer: C

NEW QUESTION 16

In an IT services firm, the AI project team is tasked with developing a virtual assistant to support customer service operations. The assistant must integrate seamlessly with existing customer relationship management (CRM) systems and handle a variety of customer queries.

Which necessary initial task should the project manager take?

- A. Building a dedicated data lake
- B. Conducting a comprehensive data audit
- C. Designing a custom AI algorithm that enhances the chatbot's capacity
- D. Procuring advanced natural language processing (NLP) libraries

Answer: B

NEW QUESTION 18

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 23

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 27

A healthcare provider plans to deploy an AI system to predict patient readmissions. The project manager needs to conduct a risk assessment to ensure patient safety and data integrity. What is an effective method to help ensure the AI system adheres to ethical standards?

- A. Implementing a data encryption protocol
- B. Using an explainability framework
- C. Performing continuous monitoring and auditing
- D. Conducting a stakeholder impact analysis

Answer: C

NEW QUESTION 31

A finance company is planning an AI project to improve fraud detection. The project manager has identified multiple cognitive patterns that can be used. Which method will narrow the project scope?

- A. Prioritizing patterns based on their potential impact and complexity
- B. Comparing cognitive patterns against noncognitive requirements
- C. Rotating through cognitive and non-cognitive patterns sequentially in short iterations
- D. Implementing all identified patterns in parallel to test their effectiveness

Answer: A

NEW QUESTION 36

A government agency plans to implement a new AI-driven solution for automating risk analysis. The project team needs to ensure that all stakeholders accept the solution and the project scope is well-defined. They must identify whether the AI approach is the best solution compared to traditional methods. Which method meets this objective?

- A. Conducting a detailed analysis to evaluate other potential AI solutions
- B. Utilizing a hybrid approach combining cognitive and noncognitive parts to satisfy all parties
- C. Developing a prototype using generative adversarial networks (GANs)
- D. Performing a comprehensive AI go/no-go assessment focusing on technology and data factors

Answer: D

NEW QUESTION 38

An aerospace firm is developing an AI system for predictive maintenance of their aircraft. The project team needs to define the required data to train the model. Which activity should the project manager implement?

- A. Setting up real-time data streaming from aircraft sensors
- B. Implementing data cleaning and preprocessing routines
- C. Developing a comprehensive data collection strategy
- D. Conducting a pilot test with a small dataset

Answer: C

NEW QUESTION 42

A project team is working on an AI project that requires strict adherence to data privacy regulations. The team is in the initial stages of data collection and aggregation. Which task will help to ensure regulatory compliance?

- A. Conducting a thorough data audit to identify sensitive information
- B. Implementing advanced encryption for all data transactions
- C. Developing a comprehensive data risk management plan
- D. Obtaining verbal commitments from stakeholders regarding data usage

Answer:

A

NEW QUESTION 44

A project manager is reviewing the performance of an AI model used for predictive analytics in sales. The model's accuracy is within acceptable limits; however, its precision is low.

What is the cause for the precision issue?

- A. The model is underfitting the validation data
- B. The training data is unbalanced
- C. The model is overfitting the training data
- D. The feature selection process is flawed

Answer: B

NEW QUESTION 45

A healthcare organization is implementing an AI system for patient data management. The project manager must ensure compliance with data privacy regulations. In addition, they need to verify that the AI tool adheres to all relevant data access protocols and compliance standards.

What should the project manager do first to address these requirements?

- A. Conduct a comprehensive data protection impact assessment.
- B. Develop and enforce a data governance framework.
- C. Implement secure data protocols (SDPs) and monitoring.
- D. Establish a data privacy officer (DPO) role to oversee the AI system.

Answer: A

NEW QUESTION 50

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 55

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 57

An IT services company project manager is creating an AI project scope statement. They need to include details on the environments, devices, and personnel that will use the AI solution.

What should the project manager do?

- A. Perform a detailed technical requirements audit for the scope statement.
- B. Develop a comprehensive usage scenario analysis.
- C. Gain stakeholder buy-in to proceed with the project.
- D. Create an AI efficacy program to complete the scope statement.

Answer: B

NEW QUESTION 58

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 61

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

Answer: C

NEW QUESTION 64

In a government healthcare AI project, the objective is to reduce patient wait times by optimizing staff schedules. After 6 months, the cost is US\$500,000 with a completion rate of 60%. The project manager needs to determine the return on investment (ROI) to justify the current expenditure. What is an effective method to achieve this objective?

- A. Utilize a net present value model to project future benefits.
- B. Calculate the total savings in patient wait times and compare them to the initial cost.
- C. Apply a cost-consequence analysis to measure project efficiency.
- D. Evaluate the incremental cost-benefit analysis using the cost-performance baseline.

Answer: A

NEW QUESTION 68

A healthcare organization is preparing training data for an AI model that predicts patient readmissions. The team discovers inconsistent coding across clinics for the same diagnosis. Which action best addresses the problem during data preparation?

- A. Determine and apply data transformation and standardization steps
- B. Ignore the inconsistency because the model will learn patterns anyway
- C. Replace real data with only synthetic data
- D. Skip validation to save time

Answer: A

NEW QUESTION 69

A city transportation department is deploying an AI model that adjusts traffic signal timing. The department is concerned that traffic patterns will shift seasonally and during major events. What is the best method to manage this risk after deployment?

- A. Perform continuous monitoring and auditing for drift and performance degradation
- B. Increase the training dataset size once before launch
- C. Disable model updates to maintain consistent behavior
- D. Rely on vendor guarantees instead of internal controls

Answer: A

NEW QUESTION 73

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 76

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 81

A project involves integrating AI systems across multiple departments, each with different access levels. This complex AI project has presented the project manager with significant issues related to data misuse. The project team has been focused on their ethics guidelines but continues to experience data misuse. The project involves different regional data protection regulations which further increases the complexity. What issue will cause these challenges to occur?

- A. Limited awareness of explainability requirements
- B. Lack of a detailed plan addressing a governance strategy
- C. Overlooking algorithmic bias and fairness concerns

D. Failure to implement robust encryption for data security

Answer: B

NEW QUESTION 83

A logistics company wants to use AI to optimize delivery routes for a client that runs a pizza franchise. Which AI capability should be used?

- A. Autonomous systems
- B. Predictive analytics
- C. Conversational
- D. Hyperpersonalization

Answer: B

NEW QUESTION 84

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 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. Ability to handle increased loads
- C. Human oversight requirements
- D. Integration with the existing infrastructure

Answer: B

NEW QUESTION 90

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

Answer: C

NEW QUESTION 95

A project manager is preparing a contingency plan for an AI-enabled underwriting platform. During outages, the business must still make time-sensitive decisions. What strategy best supports business continuity?

- A. Implement a manual override process with defined escalation and decision rules
- B. Stop all underwriting until the AI system returns
- C. Keep the AI system running without monitoring to avoid interruptions
- D. Only increase marketing to offset the outage

Answer: A

NEW QUESTION 96

A manufacturing firm plans to use AI to predict equipment failures. The team can access sensor data but it contains many missing values and out-of-range readings. What should the project manager prioritize first?

- A. Data understanding and quality assessment to characterize missingness and anomalies
- B. Deploy the model quickly and fix issues later
- C. Ignore the sensor data and use only expert opinion
- D. Focus only on UI design for the dashboard

Answer: A

NEW QUESTION 100

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 104

An AI project team has identified a gap in their data knowledge and experience. They need to address this issue in order to proceed with their AI implementation. What is the effective solution?

- A. Deploy an adaptive data knowledge framework (ADKF) to bridge the expertise gap
- B. Utilize an AI-specific data enhancement protocol to improve data quality
- C. Engage in a comprehensive data immersion program to build internal capabilities
- D. Hire an external data consultant to provide targeted guidance and training

Answer: D

NEW QUESTION 109

In the finance sector, a company is implementing an AI system for credit risk assessment. The project manager needs to identify the data subject matter experts (SMEs) who can help to ensure the accuracy and reliability of the model.

What is an effective method to achieve this objective?

- A. Engage with internal data analysts and financial experts
- B. Focus on SMEs with experience in noncognitive solutions
- C. Rely on general IT staff for data and financial expertise
- D. Select SMEs based on their availability rather than expertise

Answer: A

NEW QUESTION 113

A team is in the early stages of an AI project. They need to ensure they have the necessary data and technology to support AI solution development. What is the first step the project team should complete?

- A. Assess the team's current AI and data expertise.
- B. Outline the business objectives for the AI project.
- C. Verify the availability and quality of the required data.
- D. Identify the gaps and procure the needed tools.

Answer: B

NEW QUESTION 118

A project manager is considering different project management approaches for an AI solution deployment. They need to ensure the approach allows for iterative improvements and accommodates changing requirements.

Which approach is effective in this situation?

- A. Predictive
- B. Hybrid
- C. Incremental
- D. Adaptive/agile

Answer: D

NEW QUESTION 121

A team is in the early stages of an AI project. They need to ensure they have the necessary data and technology to support AI solution development. What is the first step the project team should complete?

- A. Assess the team's current AI and data expertise
- B. Outline the business objectives for the AI project
- C. Identify the gaps and procure the needed tools
- D. Verify the availability and quality of the required data

Answer: D

NEW QUESTION 123

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 126

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 128

An aerospace company is evaluating whether their sensor data meets the requirements for an AI-based predictive maintenance system. The project team needs to ensure that the data's accuracy, resolution, and timeliness are adequate to predict equipment failures. Which method addresses the requirements?

- A. Evaluating the data schema and integrating additional data sources
- B. Performing a data quality assessment focusing on precision and latency
- C. Implementing a data governance framework to ensure compliance
- D. Analyzing data completeness and conducting feature engineering

Answer: B

NEW QUESTION 131

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 132

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 135

A telecommunications company is considering an AI solution to improve customer service through automated chatbots. The project team is assessing the feasibility of the AI solution by examining its potential scalability and effectiveness. What will present the highest risk to the company?

- A. The chatbot may not integrate well with existing customer service platforms.
- B. The solution might breach customer data privacy regulations, leading to legal consequences.
- C. The solution may not handle the volume of customer queries effectively.
- D. The team may lack experience implementing AI-based customer service solutions.

Answer: B

NEW QUESTION 136

A telecommunications company is adopting an AI-based customer service chatbot. They are concerned about potential quality issues affecting customer satisfaction. What should the project manager do?

- A. Develop a comprehensive quality assurance plan for the chatbot
- B. Initiate a beta testing phase with a small group of customers
- C. Set up a dedicated team to monitor and address quality issues
- D. Conduct regular performance reviews and updates based on customer feedback

Answer: A

NEW QUESTION 138

A team is evaluating different AI models for their project. They are considering error rates and overall performance. If the team had selected a model based solely on the error rate, what would be the outcome?

- A. A potential to overlook other critical performance metrics
- B. A balanced performance across all metrics
- C. An increase in stakeholder satisfaction based on performance
- D. A better performance across the chosen domains

Answer: A

NEW QUESTION 139

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