



PMI

Exam Questions PMI-CPMAI

PMI Certified Professional in Managing AI

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NEW QUESTION 1

A project manager is tasked with ensuring that an AI project complies with data regulations before data collection begins. This involves identifying all necessary requirements for trustworthy AI, including ethical considerations, privacy, and transparency. What should the project manager do first?

- A. Draft a detailed data governance framework to be reviewed later.
- B. Perform a comprehensive assessment of data regulations and compliance requirements.
- C. Schedule a meeting with stakeholders to discuss potential data collection compliance issues.
- D. Develop a high-level strategy for data collection and aggregation.

Answer: B

NEW QUESTION 2

A project team is using a generative AI assistant to draft stakeholder communications. The drafts are often generic and miss project constraints. What is the most likely cause?

- A. The prompts provide insufficient context and constraints
- B. The model is too efficient
- C. The tool requires more compute
- D. The team is over-monitoring outputs

Answer: A

NEW QUESTION 3

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 4

An aerospace company's project team is evaluating data quality before preparing data for AI models to predict maintenance needs. They are facing challenges with streaming data. If the project team were dealing with batch data, how would the result be different?

- A. Batch data is easier to manage the data inflow.
- B. Batch data requires a higher need for data augmentation.
- C. Batch data has more complex data conflicts.
- D. Batch data has greater inconsistency in the data.

Answer: A

NEW QUESTION 5

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 6

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 7

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 8

A manufacturing company is operationalizing an AI-driven quality control system. The project manager needs to ensure data privacy and regulatory compliance due to the critical nature of protecting sensitive operational data.

What is an effective technique that addresses these requirements?

- A. Implementing a zero-trust architecture for network security
- B. Utilizing a secure multiparty computation framework
- C. Applying data anonymization to the dataset
- D. Using a hybrid encryption scheme for storage

Answer: C

NEW QUESTION 9

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. Testing against validation datasets
- B. Implementing an impact evaluation
- C. Running multiple end-user acceptance tests
- D. Conducting a series of penetration tests

Answer: A

NEW QUESTION 10

An AI project team has prepared the data and is ready to proceed with model development. Which action should the project manager perform next?

- A. Conduct a final assessment of the data quality
- B. Document the performance metrics for the model
- C. Ensure go/no-go questions have well-defined answers
- D. Prepare a report on the model's scalability

Answer: B

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 11

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 13

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 17

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

Answer: C

NEW QUESTION 20

An aerospace company is in the data preparation phase of an AI project. The project team must verify data quality to make a go/no-go decision for model development. They need to integrate data from several sensors with different sampling rates. What is an effective method that helps to ensure data consistency?

- A. Developing a custom data integration framework
- B. Utilizing data interpolation methods
- C. Applying a real-time data synchronization protocol
- D. Aggregating sensor data

Answer: B

NEW QUESTION 23

An insurance company is selecting an AI approach to automate simple claim approvals for low-risk cases. The organization wants the system to take actions with minimal human intervention based on predefined policies. Which AI capability best fits?

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

Answer: C

NEW QUESTION 26

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 29

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 33

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 38

An AI project team needs to consider compliance with data regulations and explainability standards as requirements for a new AI solution. At what point in the project should the requirements be approached?

- A. As part of the data preparation phase
- B. As part of the business understanding phase
- C. As part of the final testing phase
- D. As optional guidelines based on project scope

Answer: B

NEW QUESTION 43

A consulting firm is determining the feasibility of an AI project. They need to justify the use of AI over noncognitive solutions. The project manager has listed potential noncognitive alternatives.

What is an effective method to support an AI approach?

- A. Emphasizing the simplicity and reliability of noncognitive solutions
- B. Conducting a cost-benefit analysis comparing AI and noncognitive solutions
- C. Focusing on the novelty and technological AI appeal
- D. Relying only on industry trends favoring AI adoption

Answer: B

NEW QUESTION 44

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 49

A healthcare provider had physicians review a potential diagnostic AI application. During their final review, the project team, along with the physicians, discovered that the AI model exhibits a higher than acceptable false-positive rate.

Before making the go/no-go AI decision, which next step should be performed by the team?

- A. Adjust the hyperparameters for better generalization
- B. Reevaluate the business objectives and outcomes
- C. Increase the training data volume
- D. Focus on the model's ethical implications

Answer: B

NEW QUESTION 50

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 51

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 55

A project team is defining the requirements for an AI solution to ensure transparency in data selection and algorithm selection. The team needs to assess whether the AI solution is necessary and identify the cognitive parts of the project.

What should the project manager do first?

- A. Define the ethical concerns and transparency requirements.
- B. Evaluate non-cognitive alternatives and why they were ruled out.
- C. Determine the business objective and stakeholder needs.
- D. Identify the data sources and ensure compliance with regulations.

Answer: C

NEW QUESTION 60

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 64

A financial institution is implementing a new AI system for fraud detection. The project team must ensure the data meets the needs of the AI solution by verifying data quality, completeness, and relevance. They have access to various internal and external data sources.

Which method addresses the project team's objectives?

- A. Conducting a comprehensive data audit and cleansing process
- B. Limiting the data sources to internal databases to avoid complications
- C. Integrating data without improvement checks to expedite the project timeline
- D. Using pretrained models without tailoring to specific data

Answer: A

NEW QUESTION 68

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 73

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 76

A hospital project team is tasked with preparing patient telemetry data for a predictive maintenance AI model. They need to help ensure the data is in the right format and shape for the model.

What should the project manager do to achieve these objectives?

- A. Adopt a rule-based extraction, transformation, and loading (ETL) framework.
- B. Utilize an advanced data distribution service (DDS).
- C. Employ machine learning (ML) algorithms.
- D. Implement a batch processing system to enhance performance.

Answer: A

NEW QUESTION 78

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 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. Implementing data augmentation techniques to fill missing values
- B. Using data profiling tools to assess data completeness
- C. Setting up a continuous integration pipeline for real-time data validation

D. Operationalizing a data catalog to maintain metadata standards

Answer: B

NEW QUESTION 84

A financial services firm is implementing AI models to automate fraud detection. The project manager needs to ensure the models comply with regulatory standards and ethical guidelines while maintaining performance and accuracy. Which action should the project manager take?

- A. Focus solely on model accuracy, ignoring compliance
- B. Implement bias detection and mitigation strategies
- C. Use any available data without checking for consent
- D. Assume compliance without formal verification

Answer: B

NEW QUESTION 85

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 87

In a complex healthcare project, a provider plans to implement AI for patient data analysis to improve diagnostic accuracy. The project involves the need for interoperability between the AI systems and existing healthcare databases. These databases contain sensitive patient information. The requirements involve strict ethical and legal regulations in various countries. Which critical step must be performed?

- A. Maintaining high prediction accuracy
- B. Performing a detailed financial risk analysis
- C. Creating a regulatory impact report
- D. Implementing privacy impact assessments

Answer: D

NEW QUESTION 88

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 91

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 92

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 96

Different AI project team members are responsible for various parts of the project, both cognitive and non-cognitive. The project manager needs to ensure effective accountability documentation.

Which method will help to ensure accurate documentation?

- A. Implementing periodic documentation reviews by the project manager
- B. Creating separate documentation protocols for cognitive and non-cognitive parts
- C. Assigning documentation responsibilities to a dedicated documentation team
- D. Using a centralized documentation system accessible to all team members

Answer: D

NEW QUESTION 101

A fintech AI project uses third-party data sources for credit risk modeling. The project manager is concerned about compliance and accountability if the external data quality changes. Which control best supports responsible and trustworthy AI delivery?

- A. Establish data governance and supplier controls, including auditability and monitoring
- B. Remove all external data sources immediately
- C. Only document model performance once at launch
- D. Allow each team to apply its own data definitions

Answer: A

NEW QUESTION 106

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 107

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 111

A project manager is tasked with ensuring that an AI project complies with data regulations before data collection begins. This involves identifying all necessary requirements for trustworthy AI, including ethical considerations, privacy, and transparency. What should the project manager do first?

- A. Perform a comprehensive assessment of data regulations and compliance requirements
- B. Draft a detailed data governance framework to be reviewed later
- C. Schedule a meeting with stakeholders to discuss potential data collection compliance issues
- D. Develop a high-level strategy for data collection and aggregation

Answer: A

NEW QUESTION 115

A financial institution is planning to use AI capabilities to detect fraudulent transactions. The project manager needs to ensure that all necessary requirements are met before proceeding.

What is a necessary initial task?

- A. Evaluating the accuracy of current fraud detection methods
- B. Determining the scalability of AI solutions for transaction monitoring
- C. Identifying the primary stakeholders and their needs
- D. Assessing the ethical implications of using AI for fraud detection

Answer: C

NEW QUESTION 119

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 123

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 124

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 126

A manufacturing company is considering implementing an AI solution to optimize its supply chain. The project manager needs to determine if AI is necessary for this task.

Which action will address the requirements?

- A. Determining the specific cognitive tasks that AI can perform within the supply chain
- B. Evaluating the scalability of AI solutions for supply chain optimization
- C. Assessing the cost-benefit ratio of an AI implementation for the supply chain
- D. Identifying noncognitive versus AI methods used in supply chain management

Answer: A

NEW QUESTION 127

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