

Exam Questions PMI-CPMAI

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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

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

Answer: C

NEW QUESTION 3

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 4

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 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 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 7

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 8

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 9

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 10

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 10

A manufacturing company is implementing an AI system to optimize production schedules. The project manager needs to gather the required data from machine sensors, production logs, and supply chain databases. During data collection, they notice discrepancies in machine sensor data. What should the project manager do first?

- A. Develop a data integration framework to harmonize formats.
- B. Outsource data preprocessing to an external vendor.
- C. Replace machine sensors for real-time data accuracy.
- D. Implement a robust data validation and correction process.

Answer: D

NEW QUESTION 14

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 17

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 20

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 25

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 28

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 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 30

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 31

A logistics company is operationalizing an AI solution to optimize delivery routes. The project manager needs to gather up-to-date information on traffic patterns, delivery schedules, and vehicle performance. Which method will integrate these diverse data types?

- A. Adopting a federated data model
- B. Using an extraction, transformation, and loading (ETL) pipeline
- C. Implementing a real-time data processing framework
- D. Building a unified data warehouse

Answer: B

NEW QUESTION 36

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 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 38

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 42

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

Answer: AB

NEW QUESTION 44

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 47

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 50

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 55

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 56

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 58

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 63

An IT services company is working on a project to develop an AI-based customer support system. During data preparation, the project manager needs to clean and transform customer interaction logs.

What is an effective technique to handle any missing data?

- A. Ignore missing data if it seems insignificant
- B. Duplicate existing data to fill in missing gaps
- C. Fill missing values with zeros without analysis
- D. Remove records with missing values if minimal

Answer: D

NEW QUESTION 65

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 68

During the evaluation of an AI solution, the project team notices an unexpected decline in model performance. The model was previously achieving high accuracy but has recently shown increased error rates.

Which action will identify the cause of the performance decline?

- A. Reviewing recent changes made to the model's architecture and parameters
- B. Checking for issues in the data preprocessing pipeline that may have introduced noise
- C. Increasing the amount of regularization to prevent overfitting
- D. Analyzing the distribution of real-world data for potential shifts

Answer: D

NEW QUESTION 72

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 75

A team needs to identify which parts of the project they are working on will require AI and which will not. In addition, they need to determine technology and data requirements.

Which method should be used?

- A. Detailed data mapping
- B. Technical feasibility assessment
- C. Components-based analysis

Answer: C

NEW QUESTION 76

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 78

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 82

Upper management is looking to roll out a new product and wants to see if there are any patterns and insights that can be discovered from customer data. The project team has been tasked with discovering the potential patterns and structures within the data.

Which type of machine learning approach should be used?

- A. All would work equally well
- B. Unsupervised Learning
- C. Reinforcement Learning

Answer: B

NEW QUESTION 86

During the configuration management of an AI/machine learning (ML) model, the team has observed inconsistent performance metrics across different test datasets.

What will cause the inconsistency issue?

- A. Overfitting the training data
- B. Low variance in the test results
- C. Insufficient model complexity
- D. Incorrect data preprocessing steps

Answer: D

NEW QUESTION 90

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 95

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 96

A government agency is planning to implement a new AI-driven public service system. The project manager needs to develop a business case to secure funding. The agency's goals are to improve service delivery and reduce response times.

Which method will provide the results that meet the project manager's objective?

- A. Analyzing case studies from other agencies
- B. Creating a detailed ROI projection
- C. Holding stakeholder workshops
- D. Conducting a pilot program

Answer: B

NEW QUESTION 100

A healthcare project manager is evaluating whether to implement an AI-powered diagnostic tool. The initial cost is US\$500,000 with an expected return on investment (ROI) of 15% within the first year. The project needs to satisfy multiple stakeholders including hospital administrators and medical staff.

Which method will maximize a positive ROI for the AI implementation?

- A. Ensuring all AI and non-AI components are integrated seamlessly
- B. Acquiring alternatives to the AI solution as a contingency plan
- C. Monitoring AI model performance against key performance indicators
- D. Seeking verbal commitments from interested parties at each project phase

Answer: C

NEW QUESTION 102

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 103

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 104

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 109

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 114

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 115

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 116

A financial services firm is building an AI model to detect fraudulent transactions. Identifying and validating data sources is critical to the model's success. What is an effective method that helps to ensure data accuracy?

- A. Utilizing data lineage tools to track data origin and transformations
- B. Employing a federated database system for decentralized data access
- C. Implementing a blockchain-based ledger for transaction data
- D. Setting up a batch processing system for data cleansing

Answer: A

NEW QUESTION 119

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 124

An IT services company is integrating an AI solution to automate its customer service functions. The integration team is facing resistance from the customer's employees.

Which action should the project manager perform to manage this risk?

- A. Conduct all-hands meetings on the benefits
- B. Offer the option to join another team
- C. Implement a gradual phased rollout
- D. Mandate immediate transition from management

Answer: C

NEW QUESTION 128

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