

PMI

Exam Questions PMI-CPMAI

PMI Certified Professional in Managing AI



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 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 3

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 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

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 6

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 7

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 8

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 9

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 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 13

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 15

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 20

An IT services company is developing an AI system to automate network security monitoring. The project manager needs to consider various factors to mitigate risks associated with false positives and false negatives. Which action should the project manager implement?

- A. Operationalizing the nearest neighbor detection algorithms
- B. Conducting model combinations and trade-offs
- C. Implementing a robust data security validation process
- D. Establishing a continuous feedback loop with security

Answer: D

NEW QUESTION 23

An organization is considering deploying an AI solution to automate a repetitive and mundane task that is currently performed by employees. They need to ensure that the AI solution is scalable and can handle increasing volumes of work without becoming too complex to manage. Which method will help to ensure scalability?

- A. Developing a cognitive solution using natural language processing
- B. Utilizing a traditional software solution with regular performance monitoring
- C. Implementing a rule-based approach with extensive manual updates
- D. Establishing a semiautomated process combining AI and human oversight

Answer: B

NEW QUESTION 28

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 32

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 35

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 36

An organization is planning their digital transformation initiatives by building an AI solution to focus on data-collection needs. The goal is to reduce the manual handling of data. Which approach should be prioritized to achieve the objective?

- A. Outsourcing data-processing tasks to third-party vendors
- B. Implementing intelligent systems that can autonomously process and analyze data
- C. Enhancing the current database infrastructure to handle larger volumes of data
- D. Upgrading cloud storage solutions for better data management

Answer: B

NEW QUESTION 39

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 40

A telecommunications company is preparing data for an AI tool. The project team needs to ensure the data is in the right shape and format for model training. In addition, they are working with a mix of structured and unstructured data. Which method will address the project team's objectives?

- A. Converting unstructured data into structured formats
- B. Employing a data transformation tool to standardize formats
- C. Using a hybrid storage system for both data types
- D. Separating structured and unstructured data into different databases

Answer: B

NEW QUESTION 41

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 43

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 46

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 48

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 52

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 53

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 57

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 60

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 61

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 64

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 68

An aerospace engineering firm is developing a machine learning model to predict component failures. The project manager needs help to ensure the training data is representative of real-world scenarios. Which method will meet the project manager's objective?

- A. Implementing real-time data monitoring
- B. Analyzing competitor data
- C. Relying solely on synthetic data
- D. Using historical data from multiple sources

Answer: D

NEW QUESTION 73

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 78

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 80

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 81

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 82

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 84

A government agency plans to increase personalization of their AI public services platform. The agency is concerned that the personal information may be hacked. Which action should occur to achieve the agency's goals?

- A. Standardize service protocols to deliver services for reliability.
- B. Educate employees on new technologies so they can help users.
- C. Develop user-friendly interfaces which are tested by users.
- D. Enhance data privacy to increase user trust and confidence.

Answer: D

NEW QUESTION 85

In an aerospace project focused on predictive maintenance using AI, the project team is facing challenges in coordinating the AI models' operationalization across various manufacturing sites. Strong governance and corporate guardrails are established, but each site has different computational capabilities and network latencies.

What is an effective method that helps to ensure consistent AI performance across these sites?

- A. Using site-specific AI model tuning
- B. Operationalizing a decentralized AI architecture
- C. Implementing a centralized AI model repository
- D. Utilizing cloud-based AI services uniformly

Answer: D

NEW QUESTION 90

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 92

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 95

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