

PMI

Exam Questions PMI-CPMAI

PMI Certified Professional in Managing AI



NEW QUESTION 1

A financial services firm is integrating AI to enhance fraud detection. To oversee data evaluation, the project manager needs to ensure the integrity and accuracy of input data, including transaction histories and customer profiles. Which method provides the results that address the requirements?

- A. Utilizing a prompt pattern to guide the AI model's training process
- B. Using a fact checklist to systematically verify data sources
- C. Implementing alternative approaches to process data differently
- D. Applying a visualization generator to create data flow diagrams

Answer: B

NEW QUESTION 2

A telecommunications company's AI project team is operationalizing a predictive maintenance model for network equipment. They need to meticulously manage the model's configuration to avoid potential failures. Which method will help the model configuration remain consistent and avoid drift?

- A. Implementing automated retraining schedules
- B. Utilizing version control systems
- C. Performing regular manual inspections
- D. Employing frequent algorithm operationalizations

Answer: B

NEW QUESTION 3

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 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 telecommunications company is implementing an AI solution to optimize network performance. The project team needs to prepare the data for the AI system by addressing data format inconsistencies. Which method should the project manager use?

- A. Determining the necessary data transformation steps
- B. Evaluating the potential impact of data breaches
- C. Implementing a data governance framework
- D. Creating a comprehensive data quality report

Answer: A

NEW QUESTION 6

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 7

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 8

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 9

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 10

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 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 15

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 20

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 23

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 24

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 28

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 29

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 34

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 37

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 38

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

- A. Operational efficiency

- B. Strategic alignment
- C. Compliance management
- D. Transparency

Answer: D

NEW QUESTION 41

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

Which action should the project manager take?

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

Answer: A

NEW QUESTION 43

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 44

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 45

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 47

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

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

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

Answer: A

NEW QUESTION 52

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 56

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 60

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 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

Doctors have been utilizing a sophisticated AI-driven cognitive solution to help with diagnosing illnesses. The AI system is integrated with several medical databases. This allowed the AI system to learn from new patient data and adapt to the latest medical knowledge and practices. The final project report indicated that the AI model had degraded over time, impacting reliability and effectiveness. The AI system must comply with healthcare regulations from various countries. What is the likely cause for the degradation issue?

- A. Data drift affecting model precision
- B. Changes in business model requirements
- C. Inadequate initial model validation
- D. Impact of data drift on model accuracy

Answer: D

NEW QUESTION 73

A project team is preparing to move to the next phase of their AI project. The team needs to ensure that all transparency and explainability requirements are met. Which activity should the project team perform?

- A. Conduct a thorough data quality assessment
- B. Define the ethical guidelines for the AI project
- C. Establish a feedback mechanism for ongoing evaluation
- D. Document the decision-making process of the AI model

Answer: D

NEW QUESTION 78

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 80

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 81

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 85

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 89

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 91

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 92

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 97

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 99

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 104

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 107

A consulting firm is preparing data for an AI-driven customer segmentation model. They need to verify data quality before data preparation. What should the project manager do first?

- A. Assess data completeness.
- B. Implement data enhancement.
- C. Conduct data cleaning.
- D. Apply data labeling techniques.

Answer: A

NEW QUESTION 108

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 110

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 115

A manufacturing company is using an AI system for quality control. The project manager needs to ensure data privacy and compliance with industry standards. Which initial approach will effectively address these requirements?

- A. Conducting regular data privacy audits
- B. Developing a comprehensive data governance plan
- C. Implementing advanced data encryption methods
- D. Establishing a data privacy task force

Answer: B

NEW QUESTION 119

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 122

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