



PMI

Exam Questions PMI-CPMAI

PMI Certified Professional in Managing AI

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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

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

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

Answer: B

NEW QUESTION 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

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 5

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 6

During the initial phase of an AI project, the team is assessing project success criteria. The project manager discovers that the project may be violating some compliance rules.

What problem describes the issue the project team is facing?

- A. Lack of clarity on the project's business objective
- B. Inadequate separation of cognitive and noncognitive software
- C. Absence of a clear AI go/no-go assessment
- D. Failure to identify applicable data regulations early on

Answer: D

NEW QUESTION 7

In the early stages of an AI project, the team needs to determine the types of environments and devices where the AI solution will be used. This information is crucial to ensure a successful implementation.

Which action should the project manager implement first?

- A. Perform a technical requirements audit.

- B. Hold workshops with end users to gather feedback.
- C. Conduct comprehensive user experience research.
- D. Draft a detailed usage scenario analysis.

Answer: B

NEW QUESTION 8

A 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 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

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

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

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

Answer: C

NEW QUESTION 10

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 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 18

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 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 23

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 25

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 29

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 31

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 32

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 36

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 41

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 44

A hospital wants to develop a medical records system with the primary goal of minimizing or eliminating paper records. They have identified where the cognitive AI solution will be applied. In addition, business objectives have been quantified and key performance indicators (KPIs) have been determined. What else needs to be done to progress to the next Cognitive Project Management for AI (CPMAI) phase?

- A. Determine the project ROI
- B. Begin prototype development
- C. Create interdepartmental strategies
- D. Explore external data sources

Answer: A

NEW QUESTION 46

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 49

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 54

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 59

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 64

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 65

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 69

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 71

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

What issue will cause these challenges to occur?

- A. Limited awareness of explainability requirements
- B. Lack of a detailed plan addressing a governance strategy
- C. Overlooking algorithmic bias and fairness concerns
- D. Failure to implement robust encryption for data security

Answer: B

NEW QUESTION 74

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 78

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 82

A logistics company is operationalizing an AI system to improve delivery times. The project team needs to identify performance constraints that may impact the AI solution. Which method should the project manager use to meet the team's objective?

- A. Benchmarking against competitors
- B. Implementing advanced data visualization tools

- C. Conducting a preliminary feasibility study
- D. Training employees on AI ethics

Answer: C

NEW QUESTION 84

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 88

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 93

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 96

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 100

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 102

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 105

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

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

Answer: D

NEW QUESTION 106

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 111

A project manager is leading a complex project for a global financial institution. The project is developing an AI-driven system for real-time fraud detection and risk management. The system needs to adhere to all financial regulations. The project manager has identified skills gaps with the existing available resources. What should the project manager do?

- A. Delay the project until internal expertise is developed
- B. Proceed with the project until external expertise is needed
- C. Allocate additional budget for consultant AI training
- D. Engage consultants to fill the expertise gap

Answer: D

NEW QUESTION 114

In a clustering analysis for data use, the project team finds that the clusters are not meaningful and do not provide actionable insights. Which activity should the project manager do with the project team?

- A. Assess the trade-offs of the various algorithms.
- B. Establish data governance protocols.
- C. Identify the data gaps and address deficiencies.
- D. Conduct an algorithm analysis on the data sources.

Answer: C

NEW QUESTION 119

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 123

A company needs to launch an AI application quickly to be the first to the market. The project team has decided to use pretrained models for their current AI project iteration. What is a key result of leveraging pretrained models?

- A. The team can see a reduction in the overall project timeline.
- B. The team can encounter compatibility issues with existing systems.
- C. The custom project development time can increase due to adjustments.
- D. The project can face unexpected scalability challenges.

Answer: A

NEW QUESTION 124

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 128

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 131

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 133

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 138

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 140

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 143

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 147

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