

PMI

Exam Questions PMI-CPMAI

PMI Certified Professional in Managing AI



NEW QUESTION 1

A project team is currently evaluating an AI solution. They need to ensure the machine learning model provides the expected business benefits. Which critical factor should the project manager assess?

- A. Maximization of model interpretability
- B. Alignment with key performance indicators
- C. Minimization of human intervention
- D. Volume of training data

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

A retail bank wants to reduce fraudulent transactions by detecting unusual card activity in near real time. Which AI capability should be used?

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

Answer: A

NEW QUESTION 4

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 5

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 6

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 7

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 8

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 9

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 10

A project team at an IT services company is developing an AI solution to enhance network security. They need to define the success criteria to help ensure the project achieves its desired outcomes.

What should the project manager do to define the relevant success criteria?

- A. Implement machine learning (ML) algorithms for threat prediction
- B. Use key performance indicators (KPIs) for incident response times and threat detection rates
- C. Conduct a SWOT (strengths, weaknesses, opportunities, threats) analysis of the network infrastructure
- D. Perform a detailed cost-benefit analysis of security investments

Answer: B

NEW QUESTION 10

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 14

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 17

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 18

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 23

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 24

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 29

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 30

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 31

A project manager is preparing a contingency plan for an AI-enabled underwriting platform. During outages, the business must still make time-sensitive decisions. What strategy best supports business continuity?

- A. Implement a manual override process with defined escalation and decision rules
- B. Stop all underwriting until the AI system returns
- C. Keep the AI system running without monitoring to avoid interruptions
- D. Only increase marketing to offset the outage

Answer: A

NEW QUESTION 36

A project team is using a prompt engineering approach to improve AI/machine learning (ML) model outputs. They started with broad questions and then narrowed down the specific elements. If the team had provided insufficient context, what would be the result?

- A. The model would generate more creative outputs.
- B. The responses would lack relevance.
- C. The model would perform more efficiently.

D. The output would include higher accuracy.

Answer: B

NEW QUESTION 40

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 45

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 48

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 51

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 54

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 57

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 61

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 64

An aerospace company is evaluating whether their sensor data meets the requirements for an AI-based predictive maintenance system. The project team needs to ensure that the data's accuracy, resolution, and timeliness are adequate to predict equipment failures. Which method addresses the requirements?

- A. Evaluating the data schema and integrating additional data sources
- B. Performing a data quality assessment focusing on precision and latency
- C. Implementing a data governance framework to ensure compliance
- D. Analyzing data completeness and conducting feature engineering

Answer: B

NEW QUESTION 65

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 66

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 70

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 72

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 76

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 77

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 80

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 81

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