PMI

Exam Questions CPMAI_v7

Cognitive Project Management in AI CPMAI v7 - Training & Certification

NEW QUESTION 1
- [Data for AI]
Your team has collected petabytes of data for your AI project. As the project lead, you understand this is too much data to use for this iteration of the project. What is the best course of action to take with this data?

A. Data selection and attribute pruning to reduce overall size and data complexity.
B. Data Deduping to reduce overall size and data complexity.
C. Data integration focused on reducing the number of data sources.
D. Careful algorithm selection that reduces the need for data.

Answer: A

Explanation:
In Phase III: Data Preparation, the Select Data task instructs teams to choose only the records and attributes needed for modeling—documenting inclusions and exclusions to reduce volume and complexity. This selective pruning of columns and rows is the primary mechanism for trimming excessive data before modeling.

NEW QUESTION 2
- [Trustworthy AI]
Your organization has just rolled out a new image recognition system and is asking all employees to use it. It was trained using images from the ImageNet test set. After a few weeks, users are finding the results are not as expected and are asking for visibility into all the aspects of what went into building an AI system. What area of Trustworthy AI is being addressed here?

A. Governed AI
B. Transparent AI
C. Explainable AI
D. AI Systemic Transparency
E. Responsible AI

Answer: B

Explanation:
In CPMAI??s Trustworthy AI framework, Transparent AI focuses on providing clear documentation of data sources, modeling approaches, evaluation methods, and deployment plans so that stakeholders can audit and understand how the system was built. The users?? request for ??visibility into all aspects?? of model development, training data, and test sets directly maps to the Required AI Transparency Considerations task early in the methodology .

NEW QUESTION 3
- [Data for AI]
Enhancing and cleaning data is an important action during which phase of CPMAI?

A. Phase VI
B. Phase I
C. Phase V
D. Phase III
E. Phase II
F. Phase IV

Answer: D

Explanation:
The CPMAI™ v7 methodology groups all data-centric preparation activities—including both data cleansing (??Clean data??) and data augmentation (??Enhance & Augment data??)—into Phase III: Data Preparation. In this phase, teams focus squarely on constructing the dataset to be used for modeling by performing all required cleaning, transformation, and enhancement operations.
Phase III: Data Preparation is defined in the Workbook??s Table of Contents as covering Data Cleansing & Enhancement tasks (??Clean data?? and ??Enhance & Augment data??) .
Under Phase III, the Generic Task Group: Data Cleansing & Enhancement explicitly lists ??Task: Clean data?? (bringing data quality to modeling-ready levels) and ??Task: Enhance & Augment data?? (producing derived attributes and new records) as core activities .

NEW QUESTION 4
- [CPMAI Methodology]
A project manager meets with a customer for initial discussions about an upcoming project. At the end of the meeting, the customer asks the project manager for a rough estimate of the project duration. Based on her experience with three similar projects, the project manager provides an estimate of 8–10 months.
What's wrong with this timeframe?

A. It's underestimating the project timeline by 3 months
B. It fits into a waterfall timeframe, but not an agile project timeframe
C. It's not accounting for data preparation timelines
D. It's not accounting for potential project delays

Answer: C

Explanation:
CPMAI's Phase III: Data Preparation is a distinct phase that encompasses data cleansing, augmentation, labeling, and pipeline construction. Because data engineering often accounts for the majority of AI project effort, omitting this phase from initial estimates leads to significant timeline underestimation. Project timelines must explicitly include Phase III activities to be realistic .

NEW QUESTION 5
- [Data for AI]

One of the key elements of a data-centric methodology is the data requirements phase. During CPMAI Phase II, several unexpected issues have developed and are now threatening the data collection efforts.
What course of action might make the issue worse?

A. See if you can expand the scope to continue with the project
B. See if you already have access to enough data to continue with the project
C. See if you can adjust the scope of this interaction to continue with the project
D. See if you can purchase the data needed to continue with the project

Answer: A

Explanation:
In Phase II: Data Understanding, CPMAI urges teams to rigorously assess data feasibility—asking whether the data is available, sufficient in quality, and properly aligned with business goals—and to perform a Go/No-Go decision before proceeding . Expanding project scope in the face of data issues violates the methodology??s iterative, scope-controlled approach. Instead, CPMAI recommends either down-scoping (Option C), verifying existing data sufficiency (Option B), or identifying necessary data sources (Option D) to resolve issues without amplifying risk.

NEW QUESTION 6
Your team is working on an AI-enabled chatbot to be placed on the website. The goal of the chatbot is to be able to answer questions 24/7 to service clients around the globe. When evaluating your data you realize you don't have enough data to train the model.
What's the best course of action?

A. Research what Third-Party Models are available and purchase them to keep the project moving
B. Do not move forward with the project
C. Ask your customer service team to generate additional data for you to use for the project
D. Use the data that you have and keep the project moving

Answer: A

Explanation:
In Phase II: Data Understanding, the Pre-Trained and Third-Party Model Usage task directs teams to "determine if team will use a model??developed by another team, or by a third-party organization" and to gather information about "costs to use model, origin of data and methods of training, performance measures, and other factors that will determine appropriateness of model" before proceeding . When in-house data is insufficient, leveraging existing third-party models is the recommended path to avoid project stall.

NEW QUESTION 7
Your company is insisting on running an automation project and applying AI best practices and methodologies to the project. You understand that automating things is just the act of using machines to repeat tasks, and does not require AI to achieve results. You think it is overkill but the project moves forward as planned. What would likely have helped avoid this conflict?

A. Nothing - running automation projects like autonomous projects is the correct thing to do.
B. Everyone on the team should understand the differences between automation and autonomous systems.
C. Senior management should become involved in the project.
D. Applying a hybrid approach of automation and AI best practices would have achieved better results.

Answer: B

Explanation:
During Phase I's Cognitive Project Requirements tasks, CPMAI instructs teams to "Determine when to implement automation versus AI." Explicitly distinguishing between simple rule-based automation (RPA) and true cognitive solutions prevents misapplication of AI methodology to non-AI use cases. Ensuring everyone understands this distinction up front would have avoided misalignment on methodology.

NEW QUESTION 8
- [Trustworthy AI]
Your organization wants to keep an eye on AI systems for Governance purposes. What are the most crucial things to consider? (Select all that apply.)

A. Vendor procurement methods
B. AI System testing requirements
C. Continuous System monitoring
D. Data source identification
E. Algorithm selection
F. Human chain of accountability
G. Key Performance Indicators (KPIs)
H. ROI determination

Answer: CDFG

Explanation:
Continuous System monitoring (C): Phase VI??s ??Monitoring and maintenance plan?? requires teams to define ??What continuous monitoring and management approach and tools will be used for the model in this iteration??? to ensure the model continues to provide expected results in operation .
Data source identification (D): In Phase II: Data Understanding, teams must ??Describe Data,?? including ??Data source formats?? and ??Training data identification,?? to maintain visibility into where the model??s inputs originate—essential for governance and troubleshooting .
Human chain of accountability (F): The ??Model Governance Framework?? task directs project teams to document ??Determination of Governance Team,?? identifying members who will serve as the ??owners?? of the model and be responsible for its usage, soliciting feedback, and addressing concerns—establishing a clear accountability structure .
Key Performance Indicators (KPIs) (G): Domain V??s ??KPI Measurement?? task mandates that teams ??Align model performance with business key performance indicators?? and implement ongoing KPI evaluation as part of quality assurance, providing the metrics by which governance bodies assess model health and business impact .
Options A, B, E, and H fall outside the core ongoing governance activities defined in CPMAI v7. Continuous monitoring of deployed models, clear data lineage, defined human accountability, and KPI tracking are the pillars of robust AI governance.

NEW QUESTION 9
- [Data for AI]
Senior management has tasked your group to analyze a data set to uncover insights into the data. What is the best approach to use to do this?

A. Data Governance
B. Data Integration
C. Data preparation
D. Data Mining or Data Analytics

Answer: D

Explanation:
CPMAI defines analytics as ??the use of statistical and computational methods to extract meaningful insights from data.?? When the goal is to discover and highlight patterns and insights within existing datasets, applying data mining or analytics techniques is the appropriate action.

NEW QUESTION 10
- [Trustworthy AI]
As an organization building an AI solution for your current customers based in NYC, but with possible plans for future expansion, how should you handle worldwide AI laws and regulations?

A. Make sure to follow relevant data, privacy, and other important laws both in the US and where you??re likely to expand to in the coming year
B. Make sure to follow relevant data, privacy, and other important laws as it pertains to NYC
C. Make sure to follow relevant data, privacy, and other important laws as it pertains to the United States
D. You??re too small of an organization to be worried about laws at the moment

Answer: A

Explanation:
CPMAI??s Trustworthy AI – Navigating AI Regulations and Frameworks tasks require continuously monitoring ??AI-relevant data privacy laws and regulations?? both where you operate today and where you plan to expand . Furthermore, the Workbook??s Task: Required Compliance with Regulations and Laws instructs teams to identify all laws and regulations that might apply based on location, industry, and other factors, ensuring legal and liability risks are addressed before operationalization .

NEW QUESTION 10
- [CPMAI Methodology]
Your team is running a forecasting project and wants to use previous user data to better predict future outcomes. However your team doesn??t have access to all the data it needs. What??s the best course of action?

A. Move ahead as planned and hope you get access to the data once you need i
B. Since you??re using an iterative approach you can always go back to steps as needed later on.
C. Cautiously move forward knowing you may need to pause mid-project which is ok.
D. Move ahead as planned so you stay on time with your project.
E. Do not move forward until you have access to all the data you need.

Answer: D

Explanation:
During Phase I: Business Understanding, the Data Feasibility task explicitly mandates a Go/No-Go decision on data availability and access: ??Do you have access to the data you need? If not, what do you need for access to the data? Mark as a ??NoGo.???? Projects should not proceed until all essential data access requirements are met to avoid wasted effort and unresolvable blockages down the line

NEW QUESTION 15
- [CPMAI Methodology]
Your team is working on an AI system to provide a more personalized experience for customers on your website. What should the team do in regard to determining the pattern of AI with regards to the ROI of the project?

A. First identify the AI pattern you want to use and then figure out the ROI
B. First determine the pattern of AI you want to use and then work with stakeholders to come up with ROI
C. First identify the objective you??re trying to solve or the ROI you desire and then use that to figure out the correct pattern
D. First talk to senior managers who set the ROI of the project

Answer: C

Explanation:
In CPMAI??s Executing the Business Understanding Phase, teams first ??formulate AI-specific business questions?? and ??estimate time-to-ROI for various AI project types?? before matching business needs to cognitive patterns . This ensures ROI-driven objectives guide the selection of one or more of the Seven Patterns of AI, rather than the reverse.

NEW QUESTION 17
- [CPMAI Methodology]
Your team is looking for a short term ROI project and decides that an AI-enabled chatbot will be the project to start with. During Phase I of CPMAI you go through the AI Go/No Go decision chart and realize that you have not answered yes to all the business feasibility questions. You and the team have not determined a clear problem definition.
What??s the best course of action with how to proceed?

A. Do not move forward and cancel the project altogether.
B. Cautiously move forward as planne
C. You do not need to answer yes to all the questions in the AI Go/No Go decision chart to start your project.

D. Do not move forward until you can determine a clear problem definition.
E. Move forward with the project as planne
F. The problem definition will become clear later on in the project.

Answer: C

Explanation:
In Phase I??s AI Go/No Go task group, the Business Feasibility step mandates that every business-feasibility question—including a clear problem definition—must be answered ??Go?? before proceeding. If any critical feasibility criteria remain unanswered or ??No Go,?? the project must pause and resolve those uncertainties rather than advance prematurely.

NEW QUESTION 22
- [Managing AI]
Your team is ready to operationalize the model they have been working on. It??s a model that is meant to be used on an ??edge device,?? specifically a mobile phone, and the user may sometimes be in remote locations without regular access to the internet.
What??s the most important thing to consider here?

A. Make sure that you can use Generative AI solutions on an edge device
B. Make sure the model lives in a hybrid environment
C. Make sure the model is available over a cloud-based API
D. Make sure the model lives on the edge device so it can be used regardless of internet connection

Answer: D

Explanation:
In the Model Operationalization phase (Phase VI), when targeting edge devices, teams must capture the specific constraints around connectivity and on-device performance. The CPMAI Workbook??s Edge Model Data Needs task group instructs project teams to list all requirements and constraints for running models on edge systems—including constraints on external data access - and to determine how models will be deployed locally so they function offline when connectivity is unavailable.
Under ??Edge constraints,?? the Workbook requires teams to ??List constraints on model usage including ?? requirements for model result response time, constraints on external data access,?? underscoring that reliance on a remote API is infeasible without connectivity.
Consequently, the critical operationalization decision is to deploy the model directly on the edge device, ensuring it remains fully functional regardless of internet availability.

NEW QUESTION 23
- [Machine Learning]
You??re running an AI project and want to speed up training of the model so that you can complete your current CPMAI iteration within the two week timeframe the team has set. What??s one approach to speed up model training?

A. Use data from a previous project
B. Use cloud-based technology
C. Use brute force method
D. Use or extend a pre-trained model

Answer: D

Explanation:
The Transfer Learning task in Phase IV: Model Development recommends leveraging a pre-trained model as the starting point for a new, related task. By fine-tuning rather than training from scratch, teams dramatically reduce compute time and data requirements—ideal for tight iteration cycles.

NEW QUESTION 24
When building your model you need to make sure you??re not only checking for performance and making sure the model is giving the expected results. You also need to make sure the model is accomplishing the business objective.
At what phase of CPMAI is this most appropriate to do this?

A. Phase IV
B. Phase I
C. Phase II
D. Phase VI
E. Phase III
F. Phase V

Answer: F

Explanation:
Phase V: Model Evaluation is where you validate not only technical performance but also alignment with the business success criteria defined in Phase I. Within this phase, the KPI Measurement task focuses on "measuring and evaluating the model against Phase I objectives," ensuring the solution meets its intended business outcomes before moving forward.

NEW QUESTION 29
You're in charge of marketing at your organization and you've been tasked with using AI to help create marketing images. What's a good solution for this need?

A. Generative AI solutions for content generation
B. Image and object detection and recognition systems
C. Autonomous patterns and process automation
D. Decision tree and Random Forest approaches

Answer: A

Explanation:
Generative AI is defined in the CPMAI Glossary as "AI systems that create new data (e.g., text, images, music) based on patterns learned from existing data." Using Generative AI for content generation directly addresses the need to produce marketing images automatically.

NEW QUESTION 33
The team is working to build a data preparation pipeline for the conversational chatbot project. Which phase of CPMAI is this done?

A. Phase I
B. Phase II
C. Phase III
D. Phase IV
E. Phase V
F. Phase VI

Answer: C

Explanation:
Phase III: Data Preparation focuses on constructing and documenting reusable data pipelines - including training and inference pipelines - alongside cleansing, augmentation, and labeling tasks to prepare data for modeling . This is where teams build the end-to-end data preparation workflows for AI solutions such as chatbots.

NEW QUESTION 34
You are working on the data engineering pipeline for the AI project and you want to make sure to address the creation of pipelines to deal with model iteration. What part of the pipeline best deals with this step?

A. Feature Engineering
B. Data Acquisition / Ingest / Capture
C. ELT pipeline
D. Retraining Pipelines

Answer: D

Explanation:
CPMAI's Model Development phase includes a specialized task—Fine-Tuning / Re-training of Pre-Trained Models—which requires teams to "determine and document what approach will be used to??re-train pre-trained models." Implementing retraining pipelines ensures the model can be iteratively updated with new data and configurations in a reproducible, automated fashion .

NEW QUESTION 35
Your team has created a model that is going to be used for monitoring systems and it needs to provide analysis on a weekly basis. What??s the most appropriate Model Operationalization approach?

A. Batch prediction
B. Real-time prediction
C. Web service / Microservice
D. Stream learning

Answer: A

NEW QUESTION 37
Your model has been working fine for the last three months, however recently you notice the model??s performance has greatly declined. What seems to have been overlooked in your workflow pipeline?

A. Model retraining
B. Model Operationalization
C. Model Drift
D. Model reevaluation

Answer: A

NEW QUESTION 42
You??re working on a project and are working with personally identifiable information (PII). What??s the best approach to take when it comes to collecting and using this data?

A. Use noise reduction techniques to reduce all forms of data noise
B. Implement a new data privacy policy
C. Store the data in a data warehouse
D. If this data is not needed, use Data anonymization techniques to remove it before feeding to models

Answer: D

NEW QUESTION 46
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