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PMI CPMAI_v7 Exam Syllabus Topics:

Topic	Details
Topic 1	• AI Fundamentals: This section measures the abilities of a Project Manager and explores foundational AI concepts, including its definition, links to human cognition, and differences across AGI, Strong, Weak, and Narrow AI. It includes understanding the Turing Test and cognitive computing, dispelling myths, and applying augmented intelligence in business contexts. The historical progression of AI, such as AI winters, symbolic logic, expert systems, and fuzzy logic, is examined along with reasons for AI's current prominence and its role in digital transformation. The section continues to assess the identification of suitable AI use cases, understanding limitations, and adoption patterns like conversational AI, speech processing, anomaly detection, RPA, goal-driven systems, and integrated AI solutions.

Topic 2	• Machine Learning: This section is aimed at the Data • AI Lead and addresses practical machine learning applications. It begins with classification, clustering, and reinforcement algorithms, including ensemble methods and evaluation against business needs. Afterwards, it examines neural network architecture design and deep learning implementation across multiple problem types. Generative AI and LLMs follow, covering use-case suitability, limitations, operation explanations, prompt engineering, fine-tuning, and integrating these technologies into augmented intelligence solutions.
Topic 3	• Domain VI Trustworthy AI: This section is designed for the Project Manager and focuses on ethical, responsible, and transparent AI development. It covers building trustworthy systems, dispelling misconceptions, evaluating real-world ethical concerns, defining responsible frameworks, and implementing mitigation tactics for unintended harms. It addresses data privacy, GDPR compliance, protection of PII, anonymization techniques, security against adversarial threats, and monitoring.
Topic 4	• Managing AI: This section is for the Project Manager and involves assessing model performance through quality assurance practices, validation techniques, overfitting and underfitting strategies, alignment with KPIs, and iterative refinements. It additionally covers the deployment of AI from training to inference, operationalization in production environments, on-premise or cloud resource selection, data lifecycle management, version control, and the choice of appropriate machine learning services.
Topic 5	• CPMAI Methodology: This domain measures the skills of a Project Manager and outlines the distinctive characteristics of AI projects compared to traditional software development. It investigates failure drivers, ROI justification, data quantity and quality challenges, proof-of-concept issues, real-world deployment barriers, lifecycle continuity, vendor mismatches, stakeholder misalignment, and adaptation of waterfall, lean, and agile approaches through the six phases of the CPMAI framework.

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PMI Cognitive Project Management in AI CPMAI v7 - Training & Certification Exam Sample Questions (Q21-Q26):

NEW QUESTION # 21
Creating machine learning models can be complicated. Your team wants to use tools called Automated Machine Learning (AutoML) to simplify the process. You know of another team that has used AutoML tools and it's saved the team a lot of time.
However, what's the one area you should not have the AutoML tool help with?

- A. Automatic algorithm selection
- B. Iterative modeling and evaluation
- C. Automatic model assessment
- D. Automatic hyperparameter tuning
- E. Automatic model selection

Answer: B

Explanation:
CPMAI's Usage of AutoML task instructs teams to "Document how AutoML tools will be used for model creation" and to verify that the output can be integrated into the overall I/O flow . While AutoML excels at automating algorithm selection, model selection, hyperparameter tuning, and even preliminary performance metrics, CPMAI places iterative modeling and evaluation squarely under the manual Model Evaluation phase-where teams must interpret results against business success criteria and decide on next steps.

Entrusting that high-level, iterative decision-making to an AutoML black box would undermine the human-centric evaluation that CPMAI mandates.
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NEW QUESTION # 22
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. Transparent AI
- B. Responsible AI
- C. AI Systemic Transparency
- D. Governed AI
- E. Explainable AI

Answer: A

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 # 23
Major factors for the project you are currently working on are around the training time, cost, and complexity of training your models. Which algorithm is not the best choice given these constraints?

- A. Gaussian Mixture
- B. Naive Bayes
- C. Neural Networks
- D. Support Vector Machines (SVM)

Answer: C

Explanation:
Neural Networks-especially deep architectures-typically require extensive computational resources, longer training times, and higher infrastructure costs compared to simpler methods. In contrast, algorithms like Naive Bayes train very quickly on large datasets, and Gaussian Mixture Models or SVMs have more moderate training complexity and infrastructure demands. Therefore, given strict constraints on training time, cost, and complexity, Neural Networks are the least suitable choice.
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NEW QUESTION # 24
An inexperienced team is training a neural network model on a desktop computer and this is taking a significant amount of time. What would you recommend to them to speed up model training?

- A. Use a contractor to do the training portion
- B. Train the model over multiple desktop computers
- C. Train the model on GPUs
- D. Break the dataset up into multiple smaller datasets and train the model on each of the smaller datasets over a desktop computer

Answer: C

Explanation:
Training deep neural networks on CPUs is very slow. CPMAI's Glossary highlights that tensor processing units (TPUs) and GPUs are specialized hardware accelerators explicitly recommended to "accelerate the training and inference of machine learning models" by parallelizing the heavy matrix operations in neural-network layers. Switching from desktop CPU training to GPU-based training can reduce training time by orders of magnitude.

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NEW QUESTION # 25

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. Retraining Pipelines
- C. ELT pipeline
- D. Data Acquisition / Ingest / Capture

Answer: B

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 .

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NEW QUESTION # 26

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If you are applying for the CPMAI_v7 certification exam, it is great to show your dedication to it. You cannot take it for granted because the Cognitive Project Management in AI CPMAI v7 - Training & Certification Exam (CPMAI_v7) certification test is tough and you have to pay a good sum for appearing in it. You will lose money and time by studying with CPMAI_v7 Exam Preparation material that is not updated. So, to avoid your loss and failure in the CPMAI_v7 exam, you must prepare with actual PMI CPMAI_v7 questions from Prep4away.

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