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PMI CPMAI_v7 Exam Syllabus Topics:

Topic	Details

Topic 1	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 2	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 3	- 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.

PMI Cognitive Project Management in AI CPMAI v7 - Training & Certification Exam Sample Questions (Q76-Q81):

NEW QUESTION # 76

Clean, well-labeled datasets used for machine learning are partitioned into three subsets: Training sets, Validation sets, and Test sets. As your team is doing this, what's the best way to split up this data?

- A. Split by patterned subsampling
- B. Use the same data for all sets
- C. Split by alphabetical order
- D. Split by random subsampling

Answer: D

Explanation:

CPMAI's glossary defines data splitting as "dividing a data set into subsets (e.g., training, validation, test) for model development and evaluation," typically achieved via random subsampling to ensure each subset is representative of the underlying distribution and to prevent sampling bias.

NEW QUESTION # 77

You need to hire a data scientist to join your team. What skill sets should you be looking for when hiring and interviewing this person? (Select all that apply.)

- A. Critical thinking skills
- B. Strong math skills, especially in calculus and statistics
- C. Prompt engineering skills
- D. Automation skills, especially around creating RPA bots
- E. Understanding of tools and technologies for manipulating, collecting, and preparing large data sets
- F. Understanding of algorithms

Answer: A,B,E,F

Explanation:

In Phase I's AI Skills Assessment, CPMAI directs teams to "List the cognitive skills you have available" and to identify "What expertise and skills you have available to you that you can use for this project" as well as any skills gaps to address. The

methodology-and the CPMAI Glossary's definition of a data scientist- emphasizes core competencies in:

Data Engineering & Preparation (manipulating, collecting, transforming large data sets) Critical Thinking (interpreting insights to align with business goals) Algorithmic Understanding (selecting and applying the right statistical or ML models) Mathematical Proficiency (especially statistics and calculus underpinning model creation) By contrast, prompt engineering (A) is a specialized role for LLM interactions, not a general data-science core competency; and RPA-centric automation skills (E) fall outside the CPMAI focus on cognitive/ML capabilities.

NEW QUESTION # 78

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

Answer: B

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 # 79

During CPMAI Phase II, it's important to not only understand the sources of your data but also what data is required for training as well as identifying the features that are required.

When looking to gather data, what approach is best when determining how much data you need?

- A. The "more is better" approach
- **B. The "Goldilocks" approach**
- C. The "less is better" approach
- D. There is no correct approach

Answer: B

Explanation:

Phase II: Data Understanding centers on identifying just the right amount of data for model training- neither too little (risking underfitting) nor too much (wasting resources and introducing noise). This balanced- "Goldilocks"- approach ensures you collect sufficient high-quality, relevant records to meet cognitive objectives without incurring unnecessary cost or complexity.

NEW QUESTION # 80

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

Answer: B

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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