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PMI CPMAI_v7 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Data for AI: This domain targets the Data• AI Lead and explores the central role of data in AI deployments, including Big Data concepts and unstructured data utility. It defines data governance strategies such as steering, stewardship, lifecycle mapping, lineage tracking, and master data practices.

Topic 3	<ul style="list-style-type: none"> 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.
Topic 4	<ul style="list-style-type: none"> 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.

PMI Cognitive Project Management in AI CPMAI v7 - Training & Certification Exam Sample Questions (Q97-Q102):

NEW QUESTION # 97

Using machine learning and other cognitive approaches to understand how to take past/existing behavior and predict future outcomes or help humans make decisions about future outcomes using insight learned from past behavior/interactions/data is a core part to which pattern(s) of AI?

- A. Predictive Analytics & Decision Support
- B. Recognition Pattern
- C. Goal Driven Systems
- D. Predictive Analytics & Decision Support and Patterns and Anomalies

Answer: A

Explanation:

The Predictive Analytics & Decision Support pattern is defined as using historical data (past behavior) to forecast future events and provide decision support for human or automated processes. This is distinct from the Patterns & Anomalies pattern, which focuses on detecting unusual deviations rather than forecasting expected outcomes.

A CPMAI Glossary self-test question states that Predictive Analytics "uses historical data to forecast future outcomes".

Another glossary question defines predictive analytics as aiming "to use historical data to forecast future outcomes".

NEW QUESTION # 98

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

Answer: D

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.

NEW QUESTION # 99

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

Explanation:

The CPMAI methodology's Model Iteration Approach (Phase V) explicitly calls out that "models will need continuous iteration, especially if they are only marginally providing the desired results" and requires teams to "detail approach that will be used to iterate this model to improve on any of the results in this Phase". Failing to include a model retraining pipeline means the model cannot adapt to new data distributions, leading to performance degradation over time.

NEW QUESTION # 100

Data Engineering is 80%+ of most AI projects, so building a good Data Engineering Environment is key to AI Project Success. As the manager of this project, you need to make sure you have correct staffing needs.

What's the most critical role to staff for in the Big Data / Data Engineering Environment?

- A. Data Engineering and Data Scientists
- B. All roles are critical to staff in the Four different AI Tech environments
- C. Senior management
- D. Data Engineering
- E. Data Scientists

Answer: D

Explanation:

CPMAI underscores that preparing and managing data pipelines is foundational: in Phase III: Data Preparation, teams "create a reusable data pipeline to collect, ingest, and prepare data for training" and for inference. Ensuring these pipelines exist and are maintained falls squarely to Data Engineering specialists.

While data scientists leverage these pipelines for modeling, the dedicated Data Engineering role is the single most critical hire to support a Big Data environment.

NEW QUESTION # 101

You're running an image recognition project and realize that you do not have enough data of a certain type of vehicle. What is the best course of action to get the additional labeled data you need?

- A. Purchase the data from a third party
- B. Perform Data Transformation & Multiplication
- C. Perform Data Sampling
- D. Perform Data Anonymization

Answer: B

Explanation:

In CPMAI v7's Phase III: Data Preparation, teams are instructed to construct the final modeling dataset through a variety of enhancement activities- including data augmentation, which specifically covers transforming existing records or generating entirely new records to increase volume and variety. This

"augmentation" is described as "constructive data preparation operations such as the production of derived attributes or entire new records, or transformed values for existing attributes".

Moreover, under the Training & Test Data Requirements task, the Workbook explicitly asks project teams to determine "What transformation or multiplication activities can be done to increase training data volume while maintaining quality". Performing data transformation (e.g., image rotations, color jitter, cropping) and multiplication (synthetic record generation) directly addresses the lack of labeled samples without incurring the cost or delay of third-party purchases, making option B the correct approach.

NEW QUESTION # 102

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