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Exam : 612-51

Title : Certified Responsible AI
Governance and Ethics
Professional

Version : DEMO

1. An enterprise deploys AI-supported decision systems to assist managers in allocating work, evaluating performance patterns, and recommending development opportunities across business units. Over time, internal audits reveal that while the system complies with all technical controls and data protection requirements, its recommendations consistently favor certain employee profiles for growth-oriented assignments while others are repeatedly routed toward low-visibility tasks. No formal policy prohibits employees from advancement, and no explicit bias parameters were programmed into the system. However, leadership recognizes that the automated decision patterns are shaping career outcomes in ways that may undermine fairness, dignity, and equal opportunity, even though no regulatory violations have yet occurred. The concern centers on the values embedded in how decisions are made and their impact on people.

From an AI risk categorization perspective, which type of AI concern is most accurately reflected in this scenario?

- A. Societal concern
- B. Ethical concern
- C. Privacy and security concern
- D. Long-term concern

Answer: B

2. Lexicon Analytics is building a Natural Language Processing (NLP) pipeline for a new sentiment analysis product. The engineering team is defining the preprocessing specifications to convert raw customer reviews into machine-readable formats. The AI Program Manager needs to approve the step where long paragraphs are broken down into smaller units, such as words or sub-words.

Which stage of the NLP preprocessing is the Program Manager approving?

- A. Lemmatization
- B. Stemming
- C. Tokenization
- D. Sentiment Scoring

Answer: C

3. Your AI engineering team is developing a next-generation machine translation engine intended for enterprise and regulatory use, where accurate interpretation of long and complex sentences is critical. The previous model (using RNNs) failed to translate long sentences accurately because it processed words sequentially. To address these issues, the team determines that the new architecture should utilize self-attention mechanisms to process the entire sequence of data in parallel, handling long-range dependencies effectively.

Which deep learning architecture should the team adopt to meet these requirements?

- A. Convolutional Neural Networks (CNNs)
- B. Autoencoders
- C. Radial Basis Function Networks
- D. Transformer Networks

Answer: D

4. StreamLine Media plans to develop a recommendation engine that forecasts the next video a user is likely to watch by analyzing the chronological sequence of their viewing history from the past month. The

Lead Data Scientist is guiding the team in choosing the most suitable architecture for handling time-dependent sequential data.

Which architecture should be selected for this recommendation engine?

- A. Convolutional Neural Networks (CNNs)
- B. Recurrent Neural Networks (RNNs)
- C. Generative Adversarial Networks (GANs)
- D. Feedforward Neural Networks (FNNs)

Answer: B

5. Michael Turner, Vice President of Enterprise Technology at a global insurance organization, is coordinating the rollout of an AI-based customer verification and fraud analytics platform across multiple regions. To support rapid scaling and operational resilience, the organization partners with an external firm that supplies on-demand computing capacity, managed data storage, embedded security controls, and a standardized environment for deploying and operating machine learning workloads. Internal teams remain responsible for developing application logic, governing AI models, and ensuring regulatory and policy compliance. The external firm's accountability is confined to operating, securing, and maintaining the underlying technical infrastructure that enables these AI systems to run reliably.

Which third-party role within the AI ecosystem best describes this external firm's function?

- A. Data Vendors
- B. AI-as-a-Service (API) Providers
- C. Cloud Providers
- D. Model Providers

Answer: C