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Question: 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

Question: 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

Question: 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 utilizes 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

Question: 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

Question: 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

Question: 6

A national digital-learning board deploys an AI-driven recommendation engine to personalize course pathways for students across public institutions. After the first academic cycle, education auditors discover that the system automatically redirects students into lower complexity learning tracks solely based on early performance indicators. Neither students nor instructors are informed of these automated pathway changes, and no mechanism exists for learners to express preferences, contest the outcomes, or opt for advanced coursework. Several students report feeling constrained by decisions they were never involved in, raising concerns about the system's impact on learner autonomy and developmental opportunities. As the Chief AI Governance Officer, you must identify the ethical principle compromised to guide necessary policy and design corrections.
Which ethical principle has been violated in this scenario?

A. Fairness
B. Transparency
C. Human-Centric Values
D. Accountability

Answer: C

Question: 7

The executive dashboard at HorizonService has successfully alerted the leadership team that Q3 sales revenue has dropped by 10% compared to the previous quarter. The Business Intelligence Manager now tasks the data science team with investigating historical data patterns to determine the specific root causes of this decline, such as whether it was driven by a competitor's price cut or a seasonal weather shift.
Which category of analytics is the Business Intelligence Manager requesting to uncover the root causes behind the observed revenue decline?

A. Diagnostic Analytics
B. Predictive Analytics
C. Prescriptive Analytics
D. Descriptive Analytics

Answer: A

Question: 8

Dr. Aris, the Head of AI Research, is leading an internal governance review to formally classify a legacy chess-playing system developed in the 1990s as part of an enterprise AI inventory. The system determines its moves exclusively by evaluating the current board state using predefined logic and exhaustive search strategies. It does not retain information from prior matches, adapt its strategy over time, or modify its decision process based on historical gameplay data. Dr. Aris must assign a category that accurately reflects the system's lack of learning, absence of memory, and purely state-based decision behavior.
Which classification represents this system from a technical and conceptual standpoint?

A. Reactive Machines
B. Self-Aware AI
C. Limited Memory AI
D. Theory of Mind AI

Answer: A

Question: 9

Maria is spearheading a pilot program to enhance early disease detection capabilities within the hospital. She has selected a deep learning solution that processes high-dimensional inputs from different equipment's to identify subtle tissue irregularities and micro-calcifications. The system flags these regions for specialist review, effectively reducing the rate of false negatives in pathology identification.
Based on the AI Applications framework, how should this initiative be classified?

A. Predictive Analytics
B. Genomic Sequencing and Analysis
C. Medical Imaging and Diagnostics
D. Robotic Surgical Automation

Answer: C

Question: 10

A global cybersecurity consulting firm is challenged by its board after noticing unexpected patterns in the AI-driven candidate ranking system used for selecting red-team operators. Despite a diverse applicant pool, the model persistently scores candidates with certain certification keywords significantly higher than equally qualified individuals with robust exploit-development portfolios, active bug-bounty histories, or advanced defensive threat-hunting experience. Internal analysis confirms that while the dataset was balanced, the model learned to overweight specific textual features during training, leading

to disproportionate ranking outcomes. As the Head of Responsible AI Operations, you must determine the fundamental bias source to guide remediation and ensure fair evaluation standards across global hiring pipelines.
Which type of bias is being exhibited by the AI system in this scenario?

A. Data Bias
B. Confirmation Bias
C. Societal Bias
D. Algorithmic Bias

Answer: D

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