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| What are the three essential types of data required for training a language understanding model?  (Choose 3)   1. Utterance 2. Intents 3. Subjects 4. Entities |
| Which architecture do today's cutting-edge large language models for NLP tasks primarily use?   1. Decision Trees 2. Recurrent Neural Network (RNN) 3. Transformer 4. Convolutional Neural Network (CNN) |
| Which of the following features is characteristic of generative AI solutions?   1. Processing transactions in a database system 2. Executing predefined workflows in a software environment 3. Generating new content based on learned patterns 4. Following explicit programming to perform tasks |
| A student develops a machine learning model to predict whether a student will complete a college course. What type of machine learning technique is applied?   1. Classification 2. Clustering 3. Regression 4. K-means clustering |
| Which of the following best describes how to ensure fairness in an AI solution?   1. By regularly monitoring, auditing, and evaluating AI solutions for fairness 2. By minimizing demographic disparities in human data sets used in the AI solution 3. By applying algorithmic treatments to the AI data sets 4. By testing the AI solution for accuracy and reliability 5. By conducting an ethical review of the AI solution design and approving the design before the AI solution is deployed |
| Identifying handwritten letters is an example of what kind of AI workload?   1. Computer Vision 2. Natural language processing 3. Anomaly detection 4. Machine learning (Regression) |
| Which service should be used to extract text, key/value pairs, and table data automatically from scanned documents?   1. Form Recognizer 2. Text Analytics 3. Custom Vision 4. Optical character recognition (OCR) |

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| What type of machine learning type is the process of choosing gender, length of the song, and genre to train a music recommendation model?   1. Feature selection 2. Model evaluation 3. Model deployment 4. Feature engineering |
| Which of the following scenarios fits the correct type of AI workload? (Choose 3)   1. An automated chat that answers questions regarding refunds and exchange is an example of Conversational AI 2. Determining whether a photo contains a person is an example of Computer Vision 3. Predicting house prices using historical data is an example of Anomaly detection 4. Determining whether a review is positive or negative is an example of Natural language processing |
| Which of the following are Microsoft AI principles that guide the use of Azure OpenAI?  (Choose 2)   1. Energy efficiency 2. Cost-effectiveness 3. Accountability 4. Transparency |
| What are two tasks that can be performed by using **computer vision**?  (Choose 2)   1. Identify specific brands in an image. 2. Recognize the color scheme in an image 3. Translate text from one language to another. 4. Predict market prices. |
| What AI service can you use to interpret the meaning of user input, such as "Please contact me again later"?   1. Text Analytics 2. Language Understanding (LUIS) 3. Speech 4. Translator |
| What does tokenization achieve in the training of transformer models?   1. It encodes the training text into binary format. 2. It translates the training text into another language. 3. It decomposes the training text into tokens. 4. It optimizes the model for faster computations. |
| What kind of models does Azure OpenAI support?   1. DALL-E 2. Embeddings 3. All of the options 4. GPT-4 5. GPT 3.5 |

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| A company plans to apply Text Analytics API features to a technical support ticket system.  What Text Analytics API feature is best suited for extracting key dates and times from the support ticket?   1. Named Entity Recognition (NER) 2. Key phrase extraction 3. Language detection 4. Sentiment Analysis |
| What steps are involved in identifying and managing potential harms in a generative AI process? (Choose 3)   1. Marketing materials of AI services 2. Upgrading AI model algorithms 3. **Identifying potential harms** 4. **Prioritizing identified harms** 5. **Testing and verifying the prioritized harms** |
| Which of the following are features of common AI workloads?(Choose 2)   1. High computational requirements. 2. Large datasets. 3. Minimal data processing. 4. Simple, repetitive tasks. |
| What Machine Learning feature helps non-experts to create Azure machine learning models from data?   1. Automated machine learning 2. Pipelines 3. Data and compute management 4. Azure Machine Learning designer |
| What type of workload is a natural language processing workload?   1. Predictive analytics 2. Fraud detection 3. Text translation 4. Image captioning 5. Speech synthesis |
| What is a primary function of copilots in software applications?   1. To enhance graphical user interface design 2. To provide cybersecurity defenses 3. To assist users with common tasks using generative AI 4. To automate complex code deployments |
| In Azure Machine Learning designer, which two components can you drag onto a canvas?  (Choose 2)   1. Dataset 2. Module 3. Compute resources 4. Pipeline |
| What is the name of the Computer Vision task described as "an advanced machine learning technique in which individual pixels in an image are classified according to the object to which they belong"?   1. Semantic Segmentation 2. Face recognition 3. Image Classification 4. Image Analysis |
| Which of the following is a use case for clustering?   1. analyze the contents of images and grouping images that have similar colors 2. predicting the number of sales based on historical data 3. predicting whether a patient is diagnosed with diabetes or not based on features such as blood pressure, age, etc. 4. predicting how many minutes it will take to complete a race based on previous data |