

Mock Test 2 - AI&ML

Total points 1000/1000 ?

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Questions

1000 of 1000 points

✓ Which type of AI workload features the use of bots? *

25/25

- ☒ Conversational AI
- ☐ Natural language
- ☐ Computer vision
- ☐ Anomaly-driven



✓ Which AI model has security as its biggest concern? *

25/25

- ☒ Models using PII
- ☐ Autonomous vehicles
- ☐ Loan processing
- ☐ Facial recognition software



✓ Which natural language processing service provides a platform for Conversational AI?

*25/25

- ☐ Translator
- ☒ Azure Bot
- ☐ Language
- ☐ Speech



✓ For each statement regarding the features of object detection, select if the statement is true *25/25

- ☒ Adds bounding boxes around parts of an image
- ☐ Classifies image pixels according to identified objects within an image
- ☐ Calculates coordinates of the top, left, width, and height of an image



✓ Evaluate each statement regarding language detection features. *25/25
Select the true statement/s

- ☒ The ISO 6391 language code can be determined. ✓
- ☐ A phrase with two or more languages will have both languages identified.
- ☒ The top score for language detection confidence is 1. ✓

✓ Evaluate each task listed and select if the task is a capability of the Computer Vision service *25/25

- ☒ Landmark detection ✓
- ☐ Text translation within an image
- ☒ Face detection ✓

✓ [0-9]{3}-[0-9]{2}-[0-9]{4} is an example of which type of Language service entity? *25/25

- ☐ Pattern.any
- ☒ RegEx ✓
- ☐ Machine-learned
- ☐ List



✓ **What are common tools used in Azure Machine Learning Studio?** *25/25
(Choose 2)

- ☐ Blob Storage Access Policies
- ☐ Azure Virtual Machines
- ☒ Automated ML
- ☒ Designer (drag-and-drop ML)



✓ **For each machine learning model, select if the model should be a regression machine learning model** *25/25

- ☐ Predicting spam emails from a spam filter
- ☒ Predicting the amount of winter coats sold
- ☒ Predicting the price of boats



✓ **Which Azure Machine Learning Service allows for one to create a learning model without having to write code?** *25/25

- ☐ Data mining
- ☐ Data transformation
- ☒ Automated Machine Learning UI
- ☐ Pipeline



✓ Which AI guiding principle states that AI models should be built to meet any ethical and legal standards that apply to the organization developing the model? *25/25

- ☐ Reliability
- ☐ Transparency
- ☒ Accountability
- ☐ Safety



✓ Which of the following are unsupervised learning scenarios? (Choose 2) *25/25

- ☐ Predicting house prices
- ☒ Grouping customers based on purchasing behavior
- ☐ Classifying emails as spam or not
- ☒ Clustering similar documents



✓ Which of the following are APIs found in the Speech Service? (Choose three) *25/25

- ☒ Text-to-speech
- ☒ Speech Translation
- ☒ Speech-to-text
- ☐ Selective translation
- ☐ Profanity filtering



✓ **For each aspect of an AI model, select if the aspect falls under the guiding principle of transparency** *25/25

- ☒ Letting users know of limitations in the model ✓
- ☐ Including gender as a consideration
- ☐ A model is developed within the framework of organizational principles

✓ **Which machine learning model groups labels into categories, such as is the case of grouping people into career paths based on information the people provide?** *25/25

- ☐ Regression
- ☐ Clustering
- ☐ Algorithmic
- ☒ Classification ✓

✓ **For each statement regarding Face analysis, select if the statement is true** *25/25

- ☒ Occlusion determines if objects are possibly blocking a face ✓
- ☒ A minimum size for faced detection is 36 x 36. ✓
- ☐ The Exposure attribute indicates an overexposure or underexposure of the entire image.



✓ Which tool helps one to avoid facial recognition capabilities that can be used to identify attributes and emotional states? *25/25

- ☒ Fairlearn
- ☐ Azure Machine Learning
- ☐ FATE
- ☐ Responsible AI with the Face service



✓ In Conversational AI, once a knowledge base is created, what is used to deliver it to users through an interface? *25/25

- ☐ Bot service
- ☐ Conversational AI
- ☐ QnA Maker
- ☒ Bot



✓ Which Azure service is best for building, training, and deploying machine learning models? *25/25

- ☒ Azure Machine Learning
- ☐ Azure Cognitive Services
- ☐ Azure DevOps
- ☐ Azure Bot Service



✓ **In Azure Machine Learning, what type of resource is needed to manage data, resources, code, and models?**

*25/25

- ☐ Dataset
- ☐ SQL database
- ☒ Workspace
- ☐ Azure Machine Learning Studio



✓ **For each statement regarding the use of literal translation in natural language processing, select if the statement is true**

*25/25

- ☐ Literal translation takes the formal or informal use of a word into consideration.
- ☒ Literal translation attempts to find a corresponding word in a target language for every word being translated.
- ☐ Literal translation is more accurate than semantic translation.



✓ **Which natural language processing workload takes unstructured text, organizes key words or phrases by type, and can provide information via web links to these words or phrases?**

*25/25

- ☒ Entity recognition
- ☐ Language detection
- ☐ Key phrase extraction
- ☐ Sentiment analysis



✓ **For each item in a machine learning model, select if the item is a feature.** *25/25

- ☒ Day of the week
- ☒ Temperature
- ☐ Number of boat rentals



✓ **Which tool is used to identify occasional spikes and dips in a flat trend time series data set?** *25/25

- ☒ Anomaly Detector
- ☐ Real-time detection
- ☐ Batch detection
- ☐ JSON



✓ **Which tasks can be accomplished with Azure Cognitive Services? (Choose 3)** *25/25

- ☒ Face detection
- ☐ Database backup
- ☒ Language translation
- ☒ Sentiment analysis



✓ **In the process of indexing images within computer vision workloads, what are images assigned as part of being cataloged?** *25/25

- ☒ Tags
- ☐ Categories
- ☐ Metadata
- ☐ Clusters



✓ **Which of the following are core principles of responsible AI? (Choose 2)** *25/25

- ☐ Cost-efficiency
- ☐ Productivity
- ☒ Fairness
- ☒ Transparency



✓ **Which machine learning type involves training a model on labeled data?** *25/25

- ☐ Reinforcement learning
- ☒ Supervised learning
- ☐ Unsupervised learning
- ☐ Transfer learning



✓ **What is the primary purpose of the intent in a Language Understanding (LUIS) model?**

*25/25

- ☐ To validate user identity
- ☒ To identify the purpose of the user's input
- ☐ To extract keywords from the text
- ☐ To determine the correct API to call



✓ **Given this user utterance:**

*

25/25

💬 "Book a flight from *New York* to *San Francisco*"

What type of entity should be used to capture the cities?

- ☐ Pattern.any
- ☐ RegEx
- ☐ List
- ☒ Machine-learned



✓ **For each statement regarding features of image classification, Select the true statement** *25/25

- ☒ Techniques used to train image classification models are in the Custom Vision cognitive service.
- ☒ Arrays of pixel values are used to train a model.
- ☐ Image classification uses bounding boxes to identify objects.



✓ Which two types of resources are available within the Custom Vision service for image classification? (Choose two) *25/25

☐ Featuring

☒ Training

✓

☒ Prediction

✓

☐ Labeling

✓ For each statement regarding text-reading APIs, Select the true statement/s *25/25

☐ The OCR API is best used for large amounts of text within an image.

☒ Results from an OCR API are returned in pages, lines, and words.

✓

☒ The Read API works asynchronously when reading documents.

✓

✓ Which natural language processing workload determines whether a phrase or sentence constitutes positive or negative feedback? *25/25

☒ Sentiment analysis

✓

☐ Entity recognition

☐ Language modeling

☐ Key phrase extraction



✓ **For each statement regarding key phrase extraction, select if the statement is true**

*25/25

- ☐ Key phrase extraction identifies items by type.
- ☐ Key phrase extraction determines the positive or negative tone of text.
- ☒ Key phrase extraction identifies the main points within a document.



✓ **In Natural Language Processing (NLP), what is 'tokenization'? ***

25/25

- ☐ Converting audio to text
- ☒ Splitting text into words or phrases
- ☐ Training a neural network
- ☐ Matching patterns using regular expressions



✓ **Which machine learning model is an unsupervised machine learning model?**

*25/25

- ☒ Clustering
- ☐ Classification
- ☐ Anomaly-driven
- ☐ Regression



✓ **For each type of AI project, select where reliability and safety are considered to be the biggest guiding principles of the** *25/25

- ☒ Loan applications ✓
- ☐ Business practices
- ☒ Patient subscriptions ✓

✓ **For each statement regarding the Translator Text service, Select the true statements** *25/25

- ☐ Text in one language can only be translated to one other language per model.
- ☒ Localized text can be set to be ignored. ✓
- ☒ ISO 639-1 codes are used to specify the original and translated languages. ✓

✓ **To train a machine learning model, what is included in a dataset? (Choose two)** *25/25

- ☒ Labels ✓
- ☐ Algorithms
- ☐ Predictors
- ☒ Features ✓

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