AI-100Q&As

Designing and Implementing an Azure AI Solution

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QUESTION 1

You are designing a real-time speech-to-text AI feature for an Android mobile app. The feature will stream data to the Speech service.

You need to recommend which audio format to use to serialize the audio. The solution must minimize the amount of data transferred to the cloud.

What should you recommend?

A. MP3

B. WAV/PCM

C. MP4a

Correct Answer: B

Currently, only the following configuration is supported:

Audio samples in PCM format, one channel, 16 bits per sample, 8000 or 16000 samples per second (16000 or 32000 bytes per second), two block align (16 bit including padding for a sample).

Reference:

https://docs.microsoft.com/en-us/azure/cognitive-services/speech-service/how-to-use-audio-input-streams

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QUESTION 2

The development team at your company builds a bot by using C# and .NET. You need to deploy the bot to Azure.

Which tool should you use?

A. the .NET Core CLI

B. the Azure CLI

C. the Git CLI

D. the AzCopy toll

Correct Answer: B

The deployment process documented here uses one of the ARM templates to provision required resources for the bot in Azure by using the Azure CLI.

Note: When you create a bot using the Visual Studio template, Yeoman template, or Cookiecutter template the source code generated includes a deploymentTemplates folder that contains ARM templates.

References:

https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-deploy-az-cli

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QUESTION 3

You are implementing the Language Understanding (LUIS) API and are building a GDPR-compliant bot by using the Bot Framework.

You need to recommend a solution to ensure that the implementation of LUIS is GDPR-compliant.

What should you include in the recommendation?

A. Enable active learning for the bot.

B. Configure the bot to send the active learning preference of a user.

C. Delete the utterances from Review endpoint utterances.

Correct Answer: C

Deleting personal data from the device or service and can be used to support your obligations under the GDPR.

References: https://docs.microsoft.com/bs-latn-ba/azure/cognitive-services/luis/luis-user-privacy

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QUESTION 4

You need to evaluate trends in fuel prices during a period of 10 years. The solution must identify unusual fluctuations in prices and produce visual representations.

Which Azure Cognitive Services API should you use?

A. Anomaly Detector

B. Computer Vision

C. Text Analytics

D. Bing Autosuggest

Correct Answer: A

The Anomaly Detector API enables you to monitor and detect abnormalities in your time series data with machine learning. The Anomaly Detector API adapts by automatically identifying and applying the best-fitting models to your data, regardless of industry, scenario, or data volume. Using your time series data, the API determines boundaries for anomaly detection, expected values, and which data points are anomalies.

References: https://docs.microsoft.com/en-us/azure/cognitive-services/anomaly-detector/overview

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QUESTION 5

You plan to perform analytics of the medical records of patients located around the world. You need to recommend a solution that avoids storing and processing data in the cloud. What should you include in the recommendation?

A. Azure Machine Learning Studio

B. the Text Analytics API that has container support

C. Azure Machine Learning services

D. an Apache Spark cluster that uses MMLSpark

Correct Answer: D

The Microsoft Machine Learning Library for Apache Spark (MMLSpark) assists in provisioning scalable machine learning models for large datasets, especially for building deep learning problems. MMLSpark works with SparkML pipelines, including Microsoft CNTK and the OpenCV library, which provide end-to-end support for the ingress and processing of image input data, categorization of images, and text analytics using pre-trained deep learning algorithms.

References: https://subscription.packtpub.com/book/big_data_and_business_intelligence/9781789131956/10/ch10lvl1sec61/an-overview-of-the-microsoft-machine-learning-library-for-apache-spark-mmlspark