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QUESTION 1

You are working on a prototype of a text classification model in a managed Vertex AI Workbench notebook. You want to quickly experiment with tokenizing text by using a Natural Language Toolkit (NLTK) library. How should you add the library to your Jupyter kernel?

A. Install the NLTK library from a terminal by using the pip install nltk command.

B. Write a custom Dataflow job that uses NLTK to tokenize your text and saves the output to Cloud Storage.

C. Create a new Vertex AI Workbench notebook with a custom image that includes the NLTK library.

D. Install the NLTK library from a Jupyter cell by using the !pip install nltk --user command.

Correct Answer: D

QUESTION 2

You work for a multinational organization that has recently begun operations in Spain. Teams within your organization will need to work with various Spanish documents, such as business, legal, and financial documents. You want to use machine learning to help your organization get accurate translations quickly and with the least effort. Your organization does not require domain-specific terms or jargon. What should you do?

A. Create a Vertex AI Workbench notebook instance. In the notebook, extract sentences from the documents, and train a custom AutoML text model.

B. Use Google Translate to translate 1,000 phrases from Spanish to English. Using these translated pairs, train a custom AutoML Translation model.

C. Use the Document Translation feature of the Cloud Translation API to translate the documents.

D. Create a Vertex AI Workbench notebook instance. In the notebook, convert the Spanish documents into plain text, and create a custom TensorFlow seq2seq translation model.

Correct Answer: C

QUESTION 3

You work for a delivery company. You need to design a system that stores and manages features such as parcels delivered and truck locations over time. The system must retrieve the features with low latency and feed those features into a model for online prediction. The data science team will retrieve historical data at a specific point in time for model training. You want to store the features with minimal effort. What should you do?

- A. Store features in Bigtable as key/value data.
- B. Store features in Vertex AI Feature Store.
- C. Store features as a Vertex AI dataset, and use those features to train the models hosted in Vertex AI endpoints.



D. Store features in BigQuery timestamp partitioned tables, and use the BigQuery Storage Read API to serve the features.

Correct Answer: B

QUESTION 4

You work for a large social network service provider whose users post articles and discuss news. Millions of comments are posted online each day, and more than 200 human moderators constantly review comments and flag those that are inappropriate. Your team is building an ML model to help human moderators check content on the platform. The model scores each comment and flags suspicious comments to be reviewed by a human. Which metric(s) should you use to monitor the model\\'s performance?

A. Number of messages flagged by the model per minute

B. Number of messages flagged by the model per minute confirmed as being inappropriate by humans.

C. Precision and recall estimates based on a random sample of 0.1% of raw messages each minute sent to a human for review

D. Precision and recall estimates based on a sample of messages flagged by the model as potentially inappropriate each minute

Correct Answer: D

https://cloud.google.com/natural-language/automl/docs/beginners-guide https://cloud.google.com/vertex-ai/docs/text-data/classification/evaluate-model

QUESTION 5

You trained a model packaged it with a custom Docker container for serving, and deployed it to Vertex AI Model Registry. When you submit a batch prediction job, it fails with this error: "Error model server never became ready. Please validate that your model file or container configuration are valid." There are no additional errors in the logs. What should you do?

A. Add a logging configuration to your application to emit logs to Cloud Logging

B. Change the HTTP port in your model\\'s configuration to the default value of 8080

C. Change the healthRoute value in your model\\'s configuration to /healthcheck

D. Pull the Docker image locally, and use the docker run command to launch it locally. Use the docker logs command to explore the error logs

Correct Answer: D

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