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**QUESTION 1**

You are working on a binary classification ML algorithm that detects whether an image of a classified scanned document contains a company's logo. In the dataset, 96% of examples don't have the logo, so the dataset is very skewed. Which metric would give you the most confidence in your model?

- A. Precision
- B. Recall
- C. RMSE
- D. F1 score

Correct Answer: D

<https://stephenallwright.com/imbalanced-data-metric/>

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**QUESTION 2**

Your task is classify if a company logo is present on an image. You found out that 96% of a data does not include a logo. You are dealing with data imbalance problem. Which metric do you use to evaluate to model?

- A. F1 Score
- B. RMSE
- C. F Score with higher precision weighting than recall
- D. F Score with higher recall weighted than precision

Correct Answer: D

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**QUESTION 3**

You work for a pharmaceutical company based in Canada. Your team developed a BigQuery ML model to predict the number of flu infections for the next month in Canada. Weather data is published weekly, and flu infection statistics are published monthly. You need to configure a model retraining policy that minimizes cost. What should you do?

- A. Download the weather and flu data each week. Configure Cloud Scheduler to execute a Vertex AI pipeline to retrain the model weekly.
- B. Download the weather and flu data each month. Configure Cloud Scheduler to execute a Vertex AI pipeline to retrain the model monthly.
- C. Download the weather and flu data each week. Configure Cloud Scheduler to execute a Vertex AI pipeline to retrain the model every month.
- D. Download the weather data each week, and download the flu data each month. Deploy the model to a Vertex AI endpoint with feature drift monitoring, and retrain the model if a monitoring alert is detected.



Correct Answer: D

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#### QUESTION 4

You are training an ML model on a large dataset. You are using a TPU to accelerate the training process. You notice that the training process is taking longer than expected. You discover that the TPU is not reaching its full capacity. What should you do?

- A. Increase the learning rate
- B. Increase the number of epochs
- C. Decrease the learning rate
- D. Increase the batch size

Correct Answer: D

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#### QUESTION 5

You need to train a natural language model to perform text classification on product descriptions that contain millions of examples and 100,000 unique words. You want to preprocess the words individually so that they can be fed into a recurrent neural network. What should you do?

- A. Create a hot-encoding of words, and feed the encodings into your model.
- B. Identify word embeddings from a pre-trained model, and use the embeddings in your model.
- C. Sort the words by frequency of occurrence, and use the frequencies as the encodings in your model.
- D. Assign a numerical value to each word from 1 to 100,000 and feed the values as inputs in your model.

Correct Answer: B

<https://developers.google.com/machine-learning/guides/text-classification/step-3> <https://developers.google.com/machine-learning/guides/text-classification/step-4>

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