



# PROFESSIONAL-MACHINE- LEARNING-ENGINEER<sup>Q&As</sup>

Professional Machine Learning Engineer

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### QUESTION 1

You developed an ML model with AI Platform, and you want to move it to production. You serve a few thousand queries per second and are experiencing latency issues. Incoming requests are served by a load balancer that distributes them across multiple Kubeflow CPU-only pods running on Google Kubernetes Engine (GKE). Your goal is to improve the serving latency without changing the underlying infrastructure. What should you do?

- A. Significantly increase the `max_batch_size` TensorFlow Serving parameter.
- B. Switch to the `tensorflow-model-server-universal` version of TensorFlow Serving.
- C. Significantly increase the `max_enqueued_batches` TensorFlow Serving parameter.
- D. Recompile TensorFlow Serving using the source to support CPU-specific optimizations. Instruct GKE to choose an appropriate baseline minimum CPU platform for serving nodes.

Correct Answer: D

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### QUESTION 2

You recently built the first version of an image segmentation model for a self-driving car. After deploying the model, you observe a decrease in the area under the curve (AUC) metric. When analyzing the video recordings, you also discover that the model fails in highly congested traffic but works as expected when there is less traffic. What is the most likely reason for this result?

- A. The model is overfitting in areas with less traffic and underfitting in areas with more traffic.
- B. AUC is not the correct metric to evaluate this classification model.
- C. Too much data representing congested areas was used for model training.
- D. Gradients become small and vanish while backpropagating from the output to input nodes.

Correct Answer: A

The most likely reason for this result is the model is overfitting in areas with less traffic and underfitting in areas with more traffic. Probably because the model was trained on a dataset that did not have enough examples of congested traffic. As a result, the model is not able to generalise well. When the model is validated on congested traffic, it makes mistakes because it has not seen this type of data before.

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### QUESTION 3

You recently deployed an ML model. Three months after deployment, you notice that your model is underperforming on certain subgroups, thus potentially leading to biased results. You suspect that the inequitable performance is due to class imbalances in the training data, but you cannot collect more data. What should you do? (Choose two.)

- A. Remove training examples of high-performing subgroups, and retrain the model.
- B. Add an additional objective to penalize the model more for errors made on the minority class, and retrain the model
- C. Remove the features that have the highest correlations with the majority class.



- D. Upsample or reweight your existing training data, and retrain the model
- E. Redeploy the model, and provide a label explaining the model's behavior to users.

Correct Answer: BD

<https://machinelearningmastery.com/tactics-to-combat-imbalanced-classes-in-your-machine-learning-dataset/>

#### QUESTION 4

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 metrics would give you the most confidence in your model?

- A. F-score where recall is weighed more than precision
- B. RMSE
- C. F1 score
- D. F-score where precision is weighed more than recall

Correct Answer: A

#### QUESTION 5

You are developing a classification model to support predictions for your company's various products. The dataset you were given for model development has class imbalance. You need to minimize false positives and false negatives. What evaluation metric should you use to properly train the model?

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

Correct Answer: A

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