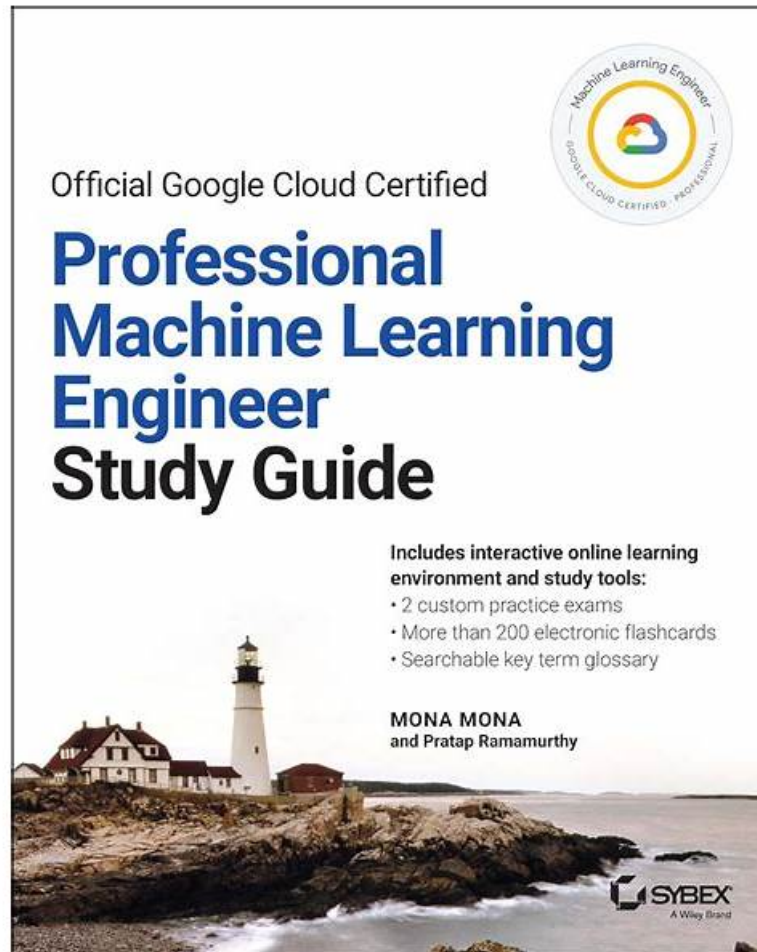


Efficient Test Professional-Machine-Learning-Engineer Book - Easy and Guaranteed Professional-Machine-Learning-Engineer Exam Success



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The Google Professional Machine Learning Engineer certification exam covers a wide range of topics related to machine learning engineering, including data preparation and analysis, feature engineering, model selection and training, hyperparameter tuning, deployment, and monitoring. Candidates will be required to demonstrate their ability to develop and manage machine learning models using Google Cloud Platform tools and services. Successful candidates will be able to design, implement, and optimize machine learning models to solve complex business problems and improve operational efficiency. The Google Professional Machine Learning Engineer Certification Exam is an excellent way for individuals to demonstrate their expertise in the field of machine learning engineering and to advance their careers in this rapidly growing field.

To be eligible to take the exam, candidates must have a strong understanding of machine learning concepts, including supervised and unsupervised learning, deep learning, and reinforcement learning. They must also have experience working with Google Cloud's machine learning services, such as AutoML, AI Platform, and TensorFlow.

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Google Professional Machine Learning Engineer Sample Questions (Q144-Q149):

NEW QUESTION # 144

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

Answer: C

Explanation:

<https://www.tensorflow.org/tfx/serving/performance>

NEW QUESTION # 145

Given the following confusion matrix for a movie classification model, what is the true class frequency for Romance and the predicted class frequency for Adventure?

- A. The true class frequency for Romance is 0.78 and the predicted class frequency for Adventure is (0.47-0.32)
- B. **The true class frequency for Romance is 57.92% and the predicted class frequency for Adventure is 13.12%**
- C. The true class frequency for Romance is 77.56% * 0.78 and the predicted class frequency for Adventure is 20.85%*0.32
- D. The true class frequency for Romance is 77.56% and the predicted class frequency for Adventure is 20.85%

Answer: B

NEW QUESTION # 146

You work on a growing team of more than 50 data scientists who all use AI Platform. You are designing a strategy to organize your jobs, models, and versions in a clean and scalable way. Which strategy should you choose?

- A. Set up restrictive IAM permissions on the AI Platform notebooks so that only a single user or group can access a given instance.
- B. **Use labels to organize resources into descriptive categories. Apply a label to each created resource so that users can filter the results by label when viewing or monitoring the resources**
- C. Set up a BigQuery sink for Cloud Logging logs that is appropriately filtered to capture information about AI Platform resource usage In BigQuery create a SQL view that maps users to the resources they are using.
- D. Separate each data scientist's work into a different project to ensure that the jobs, models, and versions created by each data scientist are accessible only to that user.

Answer: B

Explanation:

Labels are key-value pairs that can be attached to any AI Platform resource, such as jobs, models, versions, or endpoints¹. Labels can help you organize your resources into descriptive categories, such as project, team, environment, or purpose. You can use labels to filter the results when you list or monitor your resources, or to group them for billing or quota purposes². Using labels is a simple and scalable way to manage your AI Platform resources without creating unnecessary complexity or overhead. Therefore, using labels to organize resources is the best strategy for this use case.

References:

* Using labels

* Filtering and grouping by labels

NEW QUESTION # 147

Your organization wants to make its internal shuttle service route more efficient. The shuttles currently stop at all pick-up points across the city every 30 minutes between 7 am and 10 am. The development team has already built an application on Google Kubernetes Engine that requires users to confirm their presence and shuttle station one day in advance. What approach should you take?

- A. 1. Build a reinforcement learning model with tree-based classification models that predict the presence of passengers at shuttle stops as agents and a reward function around a distance-based metric
2. Dispatch an appropriately sized shuttle and provide the map with the required stops based on the simulated outcome.
- B. 1. Build a tree-based classification model that predicts whether the shuttle should pick up passengers at each shuttle station.
2. Dispatch an available shuttle and provide the map with the required stops based on the prediction
- C. 1. Build a tree-based regression model that predicts how many passengers will be picked up at each shuttle station.
2. Dispatch an appropriately sized shuttle and provide the map with the required stops based on the prediction.
- **D. 1. Define the optimal route as the shortest route that passes by all shuttle stations with confirmed attendance at the given time under capacity constraints.
2 Dispatch an appropriately sized shuttle and indicate the required stops on the map**

Answer: D

NEW QUESTION # 148

A Machine Learning Specialist wants to bring a custom algorithm to Amazon SageMaker. The Specialist implements the algorithm in a Docker container supported by Amazon SageMaker.

How should the Specialist package the Docker container so that Amazon SageMaker can launch the training correctly?

- A. Modify the `bash_profile` file in the container and add a `bashcommand` to start the training program
- B. Configure the training program as an `ENTRYPOINT` named `train`
- C. Copy the training program to `directory /opt/ml/train`
- **D. Use `CMD` config in the Dockerfile to add the training program as a `CMD` of the image**

Answer: D

NEW QUESTION # 149

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