EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 158 DISCUSSI...

Actual exam question from Google's Professional Machine Learning Engineer
Question #: 158
Topic #: 1
[All Professional Machine Learning Engineer Questions]

You are a data scientist at an industrial equipment manufacturing company. You are developing a regression model to estimate the power consumption in the company's manufacturing plants based on sensor data collected from all of the plants. The sensors collect tens of millions of records every day. You need to schedule daily training runs for your model that use all the data collected up to the current date. You want your model to scale smoothly and require minimal development work. What should you do?

A. Develop a custom TensorFlow regression model, and optimize it using Vertex AI Training.

B. Develop a regression model using BigQuery ML.

C. Develop a custom scikit-learn regression model, and optimize it using Vertex AI Training.

D. Develop a custom PyTorch regression model, and optimize it using Vertex AI Training.

Show Suggested Answer

by PST21 at *July 20, 2023, 4:08 p.m.*

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VinaoSilva 3 months, 3 weeks ago

Selected Answer: B

minimal development work + regression model = BigQuery ML

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AzureDP900 4 months ago

B. Develop a regression model using BigQuery ML.

You're looking for a solution that scales smoothly and requires minimal development work. BigQuery ML is an excellent choice because it allows you to create machine learning models directly in BigQuery, without the need to write code or set up complex infrastructure.

upvoted 1 times

fitri001 6 months ago

Selected Answer: B

Scalability: BigQuery is a serverless data warehouse designed to handle massive datasets. It can efficiently process tens of millions of records daily for model training.
Minimal Development Work: BigQuery ML offers built-in regression models like linear regression that you can train directly on your data stored in BigQuery. This eliminates the need for extensive custom code development with TensorFlow, PyTorch, or scikit-learn (options A, C, and D).
Daily Training Runs:
BigQuery ML allows scheduling queries for automated model training. You can set up a daily scheduled query to train your model on the latest data.

upvoted 3 times

7cb0ab3 6 months, 2 weeks ago

Selected Answer: B

Minimal development effort can be achieved with BigQuery ML. Also the amount of data is already in BQ.

upvoted 3 times

pinimichele01 6 months, 2 weeks ago

Selected Answer: B

Minimal dev effort => BigQueryML

upvoted 1 times

Carlose2108 7 months, 3 weeks ago

Selected Answer: C

I went C.

upvoted 1 times

Mdso 1 year, 2 months ago

Selected Answer: B

Minimal development effort => BigQueryML

upvoted 3 times

PST21 1 year, 3 months ago

Selected Answer: B

for scheduling daily training runs with minimal development work and seamless scaling, the best option is to develop a regression model using BigQuery ML (Option B). It allows you to perform model training and inference directly within BigQuery, taking advantage of its distributed processing capabilities to handle large datasets effortlessly.

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