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📄 **EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 156 DISCUSSI...**

Actual exam question from Google's Professional Machine Learning Engineer
Question #: 156
Topic #: 1

[All Professional Machine Learning Engineer Questions]

You need to build classification workflows over several structured datasets currently stored in BigQuery. Because you will be performing the classification several times, you want to complete the following steps without writing code: exploratory data analysis, feature selection, model building, training, and hyperparameter tuning and serving. What should you do?

A. Train a TensorFlow model on Vertex AI.

B. Train a classification Vertex AutoML model.

C. Run a logistic regression job on BigQuery ML.

D. Use scikit-learn in Vertex AI Workbench user-managed notebooks with pandas library.

Show Suggested Answer

by 👤 **powerby35** at *July 13, 2023, 12:50 p.m.*

Comments

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⊟ 👤 **fitri001** 6 months, 2 weeks ago

Vertex AutoML Tables is a managed service specifically designed for building machine learning models from structured data in BigQuery, all without writing code. It automates various stages of the machine learning pipeline, including:

Exploratory data analysis: AutoML Tables performs basic data understanding to identify potential issues.
Feature selection: It can automatically select relevant features for model training.
Model building: AutoML Tables trains and evaluates various machine learning models and chooses the best performing one for classification.
Hyperparameter tuning: It automatically tunes hyperparameters to optimize model performance.
Serving: You can deploy the trained model for making predictions on new data.

👍 ↩ 🚩 upvoted 2 times

☐ 👤 **ludovikush** 7 months ago

B, since it's specifying without writing code

👍 ↩ 🚩 upvoted 1 times

☐ 👤 **Carlose2108** 8 months, 1 week ago

No writing Code.
Option B.

👍 ↩ 🚩 upvoted 1 times

☐ 👤 **Tonygangrade** 8 months, 3 weeks ago

AutoML -> No writing code

👍 ↩ 🚩 upvoted 1 times

☐ 👤 **36bdc1e** 10 months ago

B
With automl we don't write any line of code

👍 ↩ 🚩 upvoted 1 times

☐ 👤 **bugger123** 11 months ago

B is correct.
A and D imply writing code in TF and Sklearn respectively.
C is writing BQML code for logistic regression as well. Furthermore, how would you do the EDA and feature selection etc. without writing code?
AutoML is THE codeless solution automating all the steps mentioned above. https://cloud.google.com/automl?hl=en

👍 ↩ 🚩 upvoted 1 times

☐ 👤 **Nxtgen** 1 year, 2 months ago

A and D would require writing code.
C. would also imply some "code writing" in BigQuery ML

I would go with B.

👍 ↩ 🚩 upvoted 1 times

☐ 👤 **powerby35** 1 year, 3 months ago

B
"without writing code"

👍 ↩ 🚩 upvoted 1 times

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