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Exam Professional Machine Learning Engineer All Questions

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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 252 DISCUSSI...

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 252

Topic #: 1

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You work for a company that sells corporate electronic products to thousands of businesses worldwide. Your company stores historical customer data in BigQuery. You need to build a model that predicts customer lifetime value over the next three years. You want to use the simplest approach to build the model and you want to have access to visualization tools. What should you do?

- A. Create a Vertex AI Workbench notebook to perform exploratory data analysis. Use IPython magics to create a new BigQuery table with input features. Use the BigQuery console to run the CREATE MODEL statement. Validate the results by using the ML.EVALUATE and ML.PREDICT statements.
- B. Run the CREATE MODEL statement from the BigQuery console to create an AutoML model. Validate the results by using the ML.EVALUATE and ML.PREDICT statements.
- C. Create a Vertex AI Workbench notebook to perform exploratory data analysis and create input features. Save the features as a CSV file in Cloud Storage. Import the CSV file as a new BigQuery table. Use the BigQuery console to run the CREATE MODEL statement. Validate the results by using the ML.EVALUATE and ML.PREDICT statements.
- D. Create a Vertex AI Workbench notebook to perform exploratory data analysis. Use IPython magics to create a new BigQuery table with input features, create the model, and validate the results by using the CREATE MODEL, ML.EVALUATE, and ML.PREDICT statements.














































Show Suggested Answer

by [pikachu007](#) at Jan. 13, 2024, 3:09 p.m.

Comments

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-  **pertoise** Highly Voted 8 months ago
Option B because there's no mention of "flexibility". Easy access to viz tools with Looker
   upvoted 5 times
-  **Dirtie_Sinkie** Most Recent 1 month ago
Selected Answer: D
Going for D
   upvoted 1 times
-  **andymetzen** 1 month, 2 weeks ago
Option D is the answer given by an official Google trainer.
   upvoted 1 times
-  **tardigradum** 2 months, 1 week ago
Simple training and integration with visualization tools = BQ
   upvoted 1 times
-  **LaxmanTiwari** 3 months, 3 weeks ago
Selected Answer: B
As requested : "simplest approach", the option B is the best choice.
   upvoted 2 times
-  **rcapj** 4 months ago
D
Vertex AI Workbench notebook: Provides an environment for data analysis, model building, and visualization tools all in one place.
IPython magics: Allows seamless interaction with BigQuery for data exploration and feature creation directly within the notebook.
CREATE MODEL statement: Enables model creation within the notebook environment, simplifying the workflow.
ML.EVALUATE and ML.PREDICT statements: Facilitate model validation directly within the notebook for assessing performance.
   upvoted 3 times
-  **omermahgoub** 6 months, 1 week ago
B. Use Bigquery ML Features to create, evaluate and predict
   upvoted 3 times
-  **daidai75** 9 months ago
Selected Answer: B
As requested : "simplest approach", the option B is the best choice.
   upvoted 2 times
-  **b1a8fae** 9 months ago
Selected Answer: B
Forgot to vote.
   upvoted 1 times
-  **b1a8fae** 9 months ago
Simplest approach that allows visualization is option B.
   upvoted 2 times
-  **winston9** 9 months ago
Selected Answer: B
all the other options create a new BQ table, I don't think it's needed.
   upvoted 1 times
-  **pikachu007** 9 months, 1 week ago
Selected Answer: A
Option B: While AutoML simplifies model selection and training, it lacks the flexibility and visualization capabilities of Vertex AI Workbench.
Option C: Manually saving features as CSV files and importing them back into BigQuery involves unnecessary data

movement and complexity.

Option D: Completing all steps within the notebook is possible but requires more coding and might not be as intuitive for those less familiar with BigQuery ML syntax.

   upvoted 2 times

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