



- Expert Verified, Online, Free.

MENU



Google Discussions



Exam Professional Machine Learning Engineer All Questions

View all questions & answers for the Professional Machine Learning Engineer exam

Go to Exam

EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 215 DISCUSSI...

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 215

Topic #: 1

[\[All Professional Machine Learning Engineer Questions\]](#)

You work for an online retailer. Your company has a few thousand short lifecycle products. Your company has five years of sales data stored in BigQuery. You have been asked to build a model that will make monthly sales predictions for each product. You want to use a solution that can be implemented quickly with minimal effort. What should you do?

- A. Use Prophet on Vertex AI Training to build a custom model.
- B. Use Vertex AI Forecast to build a NN-based model.
- C. Use BigQuery ML to build a statistical ARIMA_PLUS model.
- D. Use TensorFlow on Vertex AI Training to build a custom model.

Show Suggested Answer

by [pikachu007](#) at Jan. 13, 2024, 6:02 a.m.

Comments

Type your comment...

Submit

[fitri001](#) 6 months, 3 weeks ago



Selected Answer: C

Quick Implementation: BigQuery ML simplifies the process. You can train and deploy the model directly within BigQuery, eliminating the need for complex model deployment or data movement.

Minimal Effort: ARIMA_PLUS is a pre-built statistical model available in BigQuery ML. You don't need to write custom code for a complex neural network (NN) model like in option B or D.

Time Series Data: ARIMA models are well-suited for time series forecasting, which is ideal for your monthly sales prediction task.

   upvoted 1 times

  **fitri001** 6 months, 3 weeks ago

why not others?

A. Prophet on Vertex AI Training: While Prophet is a good choice for time series forecasting with holidays and seasonality, using Vertex AI Training requires additional setup and potentially custom code compared to the readily available ARIMA_PLUS model within BigQuery ML.

B. Vertex AI Forecast with NN-based Model: Building a custom NN-based model using Vertex AI Forecast offers flexibility but requires more effort and expertise in model development and potentially hyperparameter tuning. This might not be ideal for a quick implementation.

D. TensorFlow on Vertex AI Training: Similar to option B, using TensorFlow for a custom model offers flexibility but requires significant coding and expertise, making it less suitable for a quick and low-effort approach.



   upvoted 1 times

  **pinimichele01** 7 months ago

Selected Answer: C

data on bigquery + minimal effort -> C



   upvoted 1 times

  **b1a8fae** 9 months, 3 weeks ago

Selected Answer: C

Given amount of data (few thousand short-cycled products) and frequency of predictions (monthly) C is the way to go.

   upvoted 1 times

  **pikachu007** 9 months, 3 weeks ago

Selected Answer: C

Ease of Use: BigQuery ML integrates seamlessly with BigQuery, allowing you to create and train models directly within SQL queries, eliminating the need for separate environments or coding.

Statistical ARIMA_PLUS Strengths: This model is well-suited for time series forecasting, automatically handling seasonality, trends, and holidays, making it appropriate for monthly sales predictions.

Minimal Effort: BigQuery ML handles model training and tuning, reducing the need for manual configuration or hyperparameter tuning.

Fast Implementation: Model creation and training can be done in a few lines of SQL, enabling rapid deployment.

   upvoted 3 times

Start Learning for free



Social Media

[Facebook](#) , [Twitter](#)

[Facebook](#), [Twitter](#),
[YouTube](#), [Reddit](#),
[Pinterest](#)



We are the biggest and most updated IT certification exam material website.
Using our own resources, we strive to strengthen the IT professionals community for free.



© 2024 ExamTopics

ExamTopics doesn't offer Real Microsoft Exam Questions. ExamTopics doesn't offer Real Amazon Exam Questions. ExamTopics Materials do not contain actual questions and answers from Cisco's Certification Exams.

CFA Institute does not endorse, promote or warrant the accuracy or quality of ExamTopics. CFA® and Chartered Financial Analyst® are registered trademarks owned by CFA Institute.