

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 71 DISCUSSIO..

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 71

Topic #: 1

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

You need to train a regression model based on a dataset containing 50,000 records that is stored in BigQuery. The data includes a total of 20 categorical and numerical features with a target variable that can include negative values. You need to minimize effort and training time while maximizing model performance. What approach should you take to train this regression model?

- A. Create a custom TensorFlow DNN model
- B. Use BQML XGBoost regression to train the model.
- C. Use AutoML Tables to train the model without early stopping.
- D. Use AutoML Tables to train the model with RMSLE as the optimization objective.

Show Suggested Answer

by YangG at Dec. 9, 2022, 3:56 a.m.

### Comments

Type your comment...



Submit

gscharly 6 months, 3 weeks ago

Selected Answer: B

Went with B



   upvoted 1 times

  **M25** 1 year, 6 months ago

Selected Answer: B

Went with B

   upvoted 1 times

  **abneural** 1 year, 8 months ago

Selected Answer: B

Ans B.

C --> No early stopping means longer training time

D --> RMSLE metric need non-negative Y values

   upvoted 4 times

  **John\_Pongthorn** 1 year, 9 months ago

Selected Answer: B

B and C is the most likely because of regression approach, But RMSLE it not allow you to take negative label to train as [https://cloud.google.com/automl-tables/docs/evaluate#evaluation\\_metrics\\_for\\_regression\\_models](https://cloud.google.com/automl-tables/docs/evaluate#evaluation_metrics_for_regression_models)

RMSLE: The root-mean-squared logarithmic error metric is similar to RMSE, except that it uses the natural logarithm of the predicted and actual values plus 1. RMSLE penalizes under-prediction more heavily than over-prediction. It can also be a good metric when you don't want to penalize differences for large prediction values more heavily than for small prediction values. This metric ranges from zero to infinity; a lower value indicates a higher quality model.

The RMSLE evaluation metric is returned only if all label and predicted values are non-negative.

   upvoted 1 times

  **John\_Pongthorn** 1 year, 9 months ago

Selected Answer: D



BQML XGBoost ==> you have to take sql knowlege to write statement and B didn't mention how to get mx performance. Meanwhile

AutoML you just click and select, click and select, click and select to get it done. and D refers to measurement to get maximizing model performance. you can minimize effort literally

   upvoted 2 times

  **John\_Pongthorn** 1 year, 9 months ago

To john pongthorn , You are wrong 55555  
it must be B genuinely

   upvoted 2 times

  **zeic** 1 year, 10 months ago

I recommend option D, Use AutoML Tables to train the model with RMSLE as the optimization objective.

Using AutoML Tables to train the model can be a convenient and efficient way to minimize effort and training time while still maximizing model performance. In this case, using RMSLE as the optimization objective can be a good choice because it is a good fit for regression models with negative values in the target variable.

   upvoted 2 times

  **MithunDesai** 1 year, 10 months ago

Selected Answer: B

B is correct

   upvoted 3 times

  **hiromi** 1 year, 10 months ago

Selected Answer: B

Its seen B for me

   upvoted 1 times

  **seifou** 1 year, 10 months ago

Selected Answer: B



B is correct

   upvoted 1 times

  **ares81** 1 year, 11 months ago

It's B.

   upvoted 1 times

  **YangG** 1 year, 11 months ago

B. BigQuery is a keyword for me

   upvoted 2 times

**Start Learning for free**



### Social Media

[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.

