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## Exam Professional Machine Learning Engineer All Questions

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### EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 34 DISCUSSIO..

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 34

Topic #: 1

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You need to design a customized deep neural network in Keras that will predict customer purchases based on their purchase history. You want to explore model performance using multiple model architectures, store training data, and be able to compare the evaluation metrics in the same dashboard. What should you do?

- A. Create multiple models using AutoML Tables.
- B. Automate multiple training runs using Cloud Composer.
- C. Run multiple training jobs on AI Platform with similar job names.
- D. Create an experiment in Kubeflow Pipelines to organize multiple runs.

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by  [salsabilsf](#) at *June 9, 2021, 11:38 a.m.*

## Comments




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 [ralf\\_cc](#) [Highly Voted](#) 3 years, 4 months ago

D - <https://www.kubeflow.org/docs/about/use-cases/>

   upvoted 12 times

  **salsabilsf** Highly Voted  3 years, 5 months ago

Should be D

   upvoted 6 times

  **PhilipKoku** Most Recent  5 months ago

**Selected Answer: D**

D) Experiments is the way forward

   upvoted 1 times

  **tikka0804** 11 months, 2 weeks ago

I would vote for D but if C had said instead "different job names" .. would that have been a better option?

   upvoted 2 times

  **Sum\_Sum** 11 months, 3 weeks ago

**Selected Answer: D**

D - everything else is just nonsense


   upvoted 1 times

  **SamuelTsch** 1 year, 4 months ago

**Selected Answer: D**

D should be correct

   upvoted 2 times

  **Liting** 1 year, 4 months ago

**Selected Answer: D**

C has similar job name, which make it wrong

So correct answer should be D

   upvoted 1 times

  **tavva\_prudhvi** 1 year, 4 months ago

**Selected Answer: D**

The best approach is to create an experiment in Kubeflow Pipelines to organize multiple runs.

Option A is incorrect because AutoML Tables is a managed machine learning service that automates the process of building machine learning models from tabular data. It does not provide the flexibility to customize the model architecture or explore multiple model architectures.

Option B is incorrect because Cloud Composer is a managed workflow orchestration service that can be used to automate machine learning workflows. However, it does not provide the same level of flexibility or scalability as Kubeflow Pipelines.

Option C is incorrect because running multiple training jobs on AI Platform with similar job names will not allow you to easily organize and compare the results.

   upvoted 5 times

  **M25** 1 year, 6 months ago

**Selected Answer: D**

Went with D

   upvoted 1 times

  **Fatiy** 1 year, 8 months ago

**Selected Answer: D**

With Kubeflow Pipelines, you can create experiments that help you keep track of multiple training runs with different model architectures and hyperparameters.

   upvoted 1 times

  **mymy9418** 1 year, 10 months ago

**Selected Answer: C**

<https://cloud.google.com/vertex-ai/docs/experiments/user-journey/uj-compare-models>

   upvoted 2 times

  **suresh\_vn** 2 years, 2 months ago

D

option C does not work since CAIP have updated to VertexAI

   upvoted 1 times

  **Mohamed\_Mossad** 2 years, 4 months ago

**Selected Answer: D**

<https://www.kubeflow.org/docs/components/pipelines/concepts/experiment/>  
<https://www.kubeflow.org/docs/components/pipelines/concepts/run/>



   upvoted 1 times

  **mmona19** 2 years, 6 months ago

**Selected Answer: D**

D- we need to use experiments feature to compare models, having different job names is not going to help track experiments.

   upvoted 3 times

  **sid515** 2 years, 9 months ago

C for me. It only talks about experimentation .. that's where AI platform fits better.

   upvoted 2 times

  **NamitSehgal** 2 years, 10 months ago

**Selected Answer: C**

Similar job names is a bit of a confusion creator as we can not use same job names for sure. D sounds better but better in vertex AI during experiment phase only.

   upvoted 1 times

  **kfrd** 3 years ago

C anyone? D seems to me like an overkill.

   upvoted 4 times

  **kaike\_reis** 2 years, 11 months ago

(C) presents the most specific solution for what the question asks for: experimenting with models with their due comparisons. All of this is possible with the AI Platform. Furthermore, the question only speaks of experimentation. Kubeflow would be more powerful if it was a necessity for end-to-end pipeline.

   upvoted 3 times

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