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Exam Professional Machine Learning Engineer All Questions

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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 59 DISCUSSIO..

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 59

Topic #: 1

[All Professional Machine Learning Engineer Questions]

Your data science team needs to rapidly experiment with various features, model architectures, and hyperparameters. They need to track the accuracy metrics for various experiments and use an API to query the metrics over time. What should they use to track and report their experiments while minimizing manual effort?

- A. Use Kubeflow Pipelines to execute the experiments. Export the metrics file, and query the results using the Kubeflow Pipelines API.
- B. Use AI Platform Training to execute the experiments. Write the accuracy metrics to BigQuery, and query the results using the BigQuery API.
- C. Use AI Platform Training to execute the experiments. Write the accuracy metrics to Cloud Monitoring, and query the results using the Monitoring API.
- D. Use AI Platform Notebooks to execute the experiments. Collect the results in a shared Google Sheets file, and query the results using the Google Sheets API.

Show Suggested Answer

by 8 ralf_cc at July 10, 2021, 6:18 a.m.

Comments

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■ Dunnoth Highly Voted 1 1 year, 8 months ago

Selected Answer: A

Old answer is A. New answer (not available) would be Virtex AI experiments which comes with monitoring API inbuilt. https://cloud.google.com/blog/topics/developers-practitioners/track-compare-manage-experiments-vertex-ai-experiments

📩 🤚 📁 upvoted 14 times

☐ Lelia20210714 Highly Voted 1 3 years, 3 months ago

ANS: A

https://codelabs.developers.google.com/codelabs/cloud-kubeflow-pipelines-gis

Kubeflow Pipelines (KFP) helps solve these issues by providing a way to deploy robust, repeatable machine learning pipelines along with monitoring, auditing, version tracking, and reproducibility. Cloud AI Pipelines makes it easy to set up a KFP installation.

upvoted 12 times

eico Most Recent 1 month, 4 weeks ago

Selected Answer: A

This is an old question, when Vertex AI didn't have Vertex AI Experiments. The old answer is A

👍 🤚 🏴 upvoted 1 times

■ San111111111 3 months ago

ShoudInt it be B? VAI has inbuilt VAI experiments and metadata to track metrics..

👍 🤚 🏴 upvoted 1 times

🗖 🏜 dija123 4 months ago

Selected Answer: A

Should agree with A

upvoted 1 times

PhilipKoku 4 months, 2 weeks ago

Selected Answer: A

A) Kubeflow pipelines

upvoted 1 times

■ Mickey321 11 months, 1 week ago

Selected Answer: C

either A or C but going with C due to minimal effort

upvoted 5 times

■ Liting 1 year, 3 months ago

Selected Answer: A

I agree with tavva_prudhvi that cloud monitoring is not the best option to do machine learning tracking, Metadata is a better option for that purpose

upvoted 1 times

🗖 🏜 tavva_prudhvi 1 year, 3 months ago

Selected Answer: A

Option C suggests using AI Platform Training to execute the experiments and write the accuracy metrics to Cloud Monitoring. While Cloud Monitoring can be used to monitor and collect metrics from various services in Google Cloud, it is not specifically designed for machine learning experiments tracking.

Using Cloud Monitoring for tracking machine learning experiments may not provide the same level of functionality and flexibility as Kubeflow Pipelines or AI Platform Training. Additionally, querying the results from Cloud Monitoring may not be as straightforward as using the APIs provided by Kubeflow Pipelines or AI Platform Training.

Therefore, while Cloud Monitoring can be used as a general-purpose monitoring solution, it may not be the best option for tracking and reporting machine learning experiments.

upvoted 2 times

PST21 1 year, 4 months ago

Cloud monitoring may not be the most suitable option for tracking and reporting experiments, only because of this option C is out & I stick to A

upvoted 1 times

□ 🏜 M25 1 year, 5 months ago

Selected Answer: A

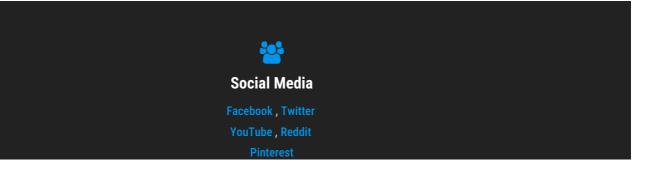
Went with A upvoted 2 times 🖃 🏜 lucaluca1982 1 year, 5 months ago Selected Answer: B It is B upvoted 1 times 🖃 🚨 John_Pongthorn 1 year, 8 months ago This is the question, Try out and choose what is the closet to this lab.Last updated Jan 21, 2023 https://codelabs.developers.google.com/vertex_experiments_pipelines_intro#0 upvoted 1 times ■ John_Pongthorn 1 year, 8 months ago As The lab walk me through how to create pipe line to experiment , it use Kubeflow and apply experiment SDK upvoted 1 times ares81 1 year, 9 months ago Selected Answer: C Vertex AI Experiments + Cloud Monitoring for the metrics. It's C! upvoted 3 times mymy9418 1 year, 9 months ago Selected Answer: C I like C https://cloud.google.com/monitoring/mql upvoted 1 times Pancy 1 year, 10 months ago C: Google has already provided inhouse monitoring mechanism so no need to query or use any other tool. https://cloud.google.com/bigquery/docs/monitoring upvoted 1 times ■ Mohamed_Mossad 2 years, 4 months ago

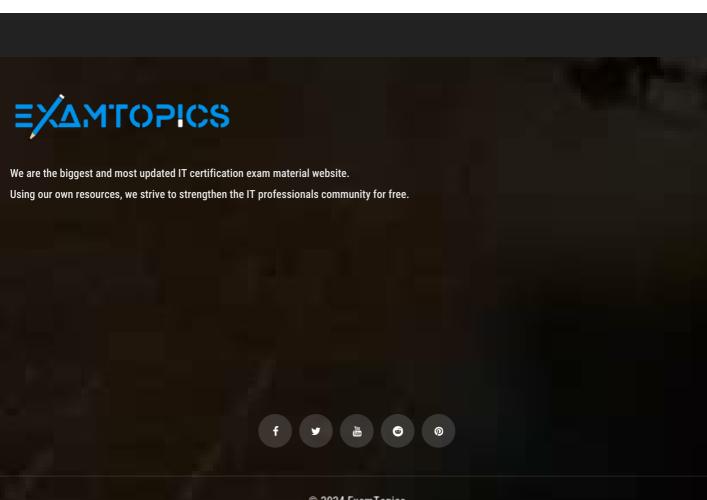
https://www.kubeflow.org/docs/components/pipelines/introduction/#what-is-kubeflow-pipelines

upvoted 1 times

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