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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 👤 ralf_cc at *July 10, 2021, 6:18 a.m.*

Comments

Type your comment...

Dunnoth `Highly Voted` 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

Celia20210714 `Highly Voted` 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

San1111111111 3 months ago

Shoudlnt 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`

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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