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📄 **EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 38 DISCUSSIO..**

Actual exam question from Google's Professional Machine Learning Engineer
Question #: 38
Topic #: 1

[All Professional Machine Learning Engineer Questions]

You have trained a text classification model in TensorFlow using AI Platform. You want to use the trained model for batch predictions on text data stored in
BigQuery while minimizing computational overhead. What should you do?

A. Export the model to BigQuery ML.

B. Deploy and version the model on AI Platform.

C. Use Dataflow with the SavedModel to read the data from BigQuery.

D. Submit a batch prediction job on AI Platform that points to the model location in Cloud Storage.

Show Suggested Answer

by 🔵 salsabilsf at *June 9, 2021, 11:52 a.m.*

Comments

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👤 **maartenalexander** 👍 Highly Voted 👍 3 years, 4 months ago

A. You would want to minimize computational overhead–BigQuery minimizes such overhead

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□ 👤 **q4exam** 3 years, 1 month ago

BQML doesnt support NLP model

👍 ↩ 🚩 upvoted 3 times

□ 👤 **ms_lemon** 3 years ago

you can import a TF model in BQ ML

👍 ↩ 🚩 upvoted 9 times

□ 👤 **gcp2021go** 2 years, 11 months ago

agree. https://cloud.google.com/bigquery-ml/docs/making-predictions-with-imported-tensorflow-models

👍 ↩ 🚩 upvoted 5 times

□ 👤 **harithacML** 1 year, 3 months ago

No need . This is a text classification problem. need to convert words to numbers and use a classifier.

👍 ↩ 🚩 upvoted 3 times

□ 👤 **chohan** `Highly Voted 👍` 3 years, 4 months ago

I think it's A
https://cloud.google.com/bigquery-ml/docs/making-predictions-with-imported-tensorflow-models#importing_models

👍 ↩ 🚩 upvoted 11 times

□ 👤 **PhilipKoku** `Most Recent ⊘` 4 months, 2 weeks ago

`Selected Answer: A`

A) BigQuery ML

👍 ↩ 🚩 upvoted 1 times

□ 👤 **girgu** 4 months, 4 weeks ago

`Selected Answer: D`

Use the gcloud command to submit a batch prediction job, specifying the model location in Cloud Storage and the BigQuery table as the input source.

👍 ↩ 🚩 upvoted 1 times

□ 👤 **Jason_Cloud_at** 1 month, 3 weeks ago

in the option D, it just mentioned GCS , BQ is no where to be found

👍 ↩ 🚩 upvoted 2 times

□ 👤 **Aastha_Vashist** 7 months, 1 week ago

`Selected Answer: A`

Bquery to minimize computational overhead

👍 ↩ 🚩 upvoted 2 times

□ 👤 **MrTracer** 10 months ago

`Selected Answer: D`

Would go with D

👍 ↩ 🚩 upvoted 1 times

□ 👤 **Sum_Sum** 11 months, 1 week ago

`Selected Answer: A`

A - you can import TF models to BQ

👍 ↩ 🚩 upvoted 2 times

□ 👤 **harithacML** 1 year, 3 months ago

`Selected Answer: A`

Model : AI Platform.
pred batch data : BigQuery
constraint : computational overhead

Same platform as data == less computation required to load and pass it to model

👍 ↩ 🚩 upvoted 2 times

□ 👤 **Liting** 1 year, 3 months ago

`Selected Answer: A`

minimize computational overhead–>BigQuery

👍 ↩ 🚩 upvoted 2 times

Voyager2 1 year, 4 months ago

Not sure if when you have the saved model in Cloud storage that means that you don't use compute in vertex. I think that the option compute-free is bigquery

👍 ↩ ⚑ upvoted 1 times

Voyager2 1 year, 4 months ago

Not sure
Text Classification Using BigQuery ML and ML.NGRAMS
https://medium.com/@jeffrey.james/text-classification-using-bigquery-ml-and-ml-ngrams-6e365f0b5505

👍 ↩ ⚑ upvoted 1 times

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rexduo 1 year, 5 months ago

Selected Answer: A

I think D have extra compute on extrating data frm BQ

👍 ↩ ⚑ upvoted 2 times

Darshan12 1 year, 5 months ago

There are some drawbacks to option D.

Cost: Submitting a batch prediction job on AI Platform is a paid service. The cost will depend on the size of the model and the amount of data that you are predicting.
Complexity: Submitting a batch prediction job on AI Platform requires you to write some code. This can be a challenge if you are not familiar with AI Platform.
Performance: Submitting a batch prediction job on AI Platform may not be as efficient as using BigQuery ML. This is because AI Platform needs to load the model into memory before it can run the predictions.
Overall, option D is a viable option, but it may not be the best option for all situations.

👍 ↩ ⚑ upvoted 2 times

M25 1 year, 5 months ago

Selected Answer: D

Went with D

👍 ↩ ⚑ upvoted 1 times

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lucaluca1982 1 year, 6 months ago

Selected Answer: C

why not C?

👍 ↩ ⚑ upvoted 1 times

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lucaluca1982 1 year, 6 months ago

Selected Answer: C

what about C?

👍 ↩ ⚑ upvoted 1 times

> **tavva_prudhvi** 1 year, 3 months ago
>
> This is an option that can be used to minimize computational overhead, but it is more complex to set up and requires you to have Dataflow installed.
>
> 👍 ↩ ⚑ upvoted 2 times
>
> > **king31** 11 months ago
> >
> > Although it's more complex, the question doesn't imply any restrictions on complexity, only computational overheard
> >
> > 👍 ↩ ⚑ upvoted 1 times

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lucaluca1982 1 year, 6 months ago

Selected Answer: D

D is more straightforward

👍 ↩ ⚑ upvoted 1 times

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