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📄 **EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 93 DISCUSSIO..**

Actual exam question from Google's Professional Machine Learning Engineer
Question #: 93
Topic #: 1

[All Professional Machine Learning Engineer Questions]

You have been asked to build a model using a dataset that is stored in a medium-sized (~10 GB) BigQuery table. You need to quickly determine whether this data is suitable for model development. You want to create a one-time report that includes both informative visualizations of data distributions and more sophisticated statistical analyses to share with other ML engineers on your team. You require maximum flexibility to create your report. What should you do?

    A. Use Vertex AI Workbench user-managed notebooks to generate the report.

    B. Use the Google Data Studio to create the report.

    C. Use the output from TensorFlow Data Validation on Dataflow to generate the report.

    D. Use Dataprep to create the report.

Show Suggested Answer

by 👤 ares81 at *Dec. 14, 2022, 2:12 p.m.*

Comments

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dija123 4 months ago

Selected Answer: A

It is a data science request that could be ended on Jupiter notebook

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gscharly 6 months, 1 week ago

Selected Answer: A

More Flexbility

👍 ↩ ⚑ upvoted 2 times

SubbuJV 8 months, 1 week ago

Selected Answer: A

More Flexbility

👍 ↩ ⚑ upvoted 1 times

Mickey321 11 months, 1 week ago

Selected Answer: A

Max flexibility

👍 ↩ ⚑ upvoted 1 times

Krish6488 11 months, 2 weeks ago

Selected Answer: A

Looker studio is good too but it does not give the same depth in statistical analysis of the data as using matplotlib, seaborn etc gives on a notebook. So Jupyterlab notebook a.k.a Vertex AI workbench for me

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MCorsetti 1 year ago

Selected Answer: A

A as it is a one off report with maximum flexibility. Dont need a dashboard unless being reused

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lalala_meow 1 year ago

Selected Answer: A

A for more sophisticated statistical analyses and maximum flexibility

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andresvelasco 1 year, 1 month ago

Selected Answer: A

A (AI workbench): "sophisticated"

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[Removed] 1 year, 3 months ago

Selected Answer: A

The answer is A.

B is wrong because you need more sophisticated statistical analyses and maximum flexibility to create your report.

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NickHapton 1 year, 3 months ago

1. one- time
2. flexibility
go for A

👍 ↩ ⚑ upvoted 1 times

SamuelTsch 1 year, 3 months ago

Selected Answer: A

went with A, because of max. flexibility

👍 ↩ ⚑ upvoted 1 times

PST21 1 year, 3 months ago

Correct Answer A . While Google Data Studio (Option B) is a powerful data visualization and reporting tool, it might not provide the same level of flexibility and sophistication for statistical analyses compared to a notebook environment.

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CloudKida 1 year, 5 months ago

Selected Answer: C

TensorFlow Data Validation(TFDV) can compute descriptive statistics that provide a quick overview of the data in terms of the features that are present and the shapes of their value distributions. Tools such as Facets Overview can provide a

the features that are present and the shapes of their value distributions. Tools such as Facets Overview can provide a succinct visualization of these statistics for easy browsing.

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☐ 👤 **lucaluca1982** 1 year, 5 months ago

Selected Answer: A

A. Flexibility is the key.

👍 ↩ 🚩 upvoted 1 times

☐ 👤 **frangm23** 1 year, 6 months ago

Selected Answer: B

I think has to be B. One of the keys is that it says quickly and BQ makes it very easy to export the query into Looker Studio. The other one is that there's maximum flexibility within the needs for this case (informative visualizations + statistical analysis), as we can develop and write custom formulas.
A feels like overkill to use a Deep Learning VM Image to only describe data and perform some analysis.
C also feels overkill to start developing a neural net for that.
D although you may use Dataprep for this, it is less suited than A

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☐ 👤 **kucuk_kagan** 1 year, 6 months ago

Selected Answer: A

A seçeneğini öneriyorum çünkü Vertex AI Workbench kullanıcı yönetimli not defterleri (user-managed notebooks), BigQuery tablosundaki verilerin analiz edilmesi ve görselleştirilmesi için daha fazla esneklik ve özelleştirme sağlar. Python kütüphaneleri (pandas, matplotlib, seaborn vb.) kullanarak, veri dağılımlarının görselleştirmelerini oluşturabilir ve daha karmaşık istatistiksel analizler gerçekleştirebilirsiniz.

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☐ 👤 **JamesDoe** 1 year, 6 months ago

Selected Answer: A

I think it's A.One time report containing real datasets STATISTICAL measurements to tell if the data is suitable for model development. Target audience is also other ML engineers.
Getting a whole report of exactly this with TFDV/Facets is like two lines of code:
https://www.tensorflow.org/tfx/data_validation/get_started

A similar data studio report for this would take lots of time and work, and there would be no benefit from reuseability since task was a one-time job.

👍 ↩ 🚩 upvoted 2 times

☐ 👤 **JamesDoe** 1 year, 6 months ago

Depending on your definition of "You require maximum flexibility to create your report.", it could very well be B too.

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