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Exam Professional Machine Learning Engineer All Questions

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📄 **EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 68 DISCUSSIO..**

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 68

Topic #: 1

[All Professional Machine Learning Engineer Questions]

You need to quickly build and train a model to predict the sentiment of customer reviews with custom categories without writing code. You do not have enough data to train a model from scratch. The resulting model should have high predictive performance. Which service should you use?

- A. AutoML Natural Language
- B. Cloud Natural Language API
- C. AI Hub pre-made Jupyter Notebooks
- D. AI Platform Training built-in algorithms

Show Suggested Answer

by 👤 **Vedjha** at *Dec. 8, 2022, 12:23 p.m.*

Comments

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⊟ 👤 **PhilipKoku** 4 months, 2 weeks ago

👤 **nmnm22** 4 months, 4 weeks ago

"Quickly build" >> usually go with the low-code/no-code options of autoML

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👤 **b2aaace** 6 months ago

Selected Answer: B

AutoML does not have transfer learning capabilities as of now. Given that there are not enough data to train from scratch, B is the only option that makes sense.

👍 ↩ 🏳 upvoted 1 times

👤 **pinimichele01** 6 months ago

https://cloud.google.com/vertex-ai/docs/text-data/sentiment-analysis/prepare-data

👍 ↩ 🏳 upvoted 1 times

👤 **MultiCloudIronMan** 6 months, 3 weeks ago

Selected Answer: A

This suitable job for AutoML, it used transfer learning when there is small data for training.

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👤 **MultiCloudIronMan** 1 month, 2 weeks ago

AutoML now supports Transfer learning, I checked it.

👍 ↩ 🏳 upvoted 1 times

👤 **LFavero** 8 months ago

Selected Answer: A

AutoML Natural Language is designed to work well even with relatively small datasets. It uses transfer learning and other techniques to train models effectively on limited data, which is crucial since there's enough data to train a model from scratch.

👍 ↩ 🏳 upvoted 3 times

👤 **Krish6488** 11 months, 2 weeks ago

Selected Answer: A

Custom models and custom categories and hence AutoML natural language, It would still work with less data

👍 ↩ 🏳 upvoted 1 times

👤 **Sahana_98** 11 months, 4 weeks ago

Selected Answer: B

NO DATA TO TRAIN THE MODEL FROM SCRACH

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👤 **GuineaPigHunter** 4 months, 4 weeks ago

"You do not have enough data to train a model from scratch" - I think this means that there is SOME data but not a lot, something which AutoML can handle.

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👤 **M25** 1 year, 5 months ago

Selected Answer: A

Went with A

👍 ↩ 🏳 upvoted 1 times

👤 **dfdrin** 1 year, 6 months ago

Selected Answer: A

It's A. "Custom categories" means B can't be correct

👍 ↩ 🏳 upvoted 2 times

👤 **tavva_prudhvi** 1 year, 7 months ago

Its A, Check this document, https://cloud.google.com/natural-language/automl/docs/beginners-guide
The Natural Language API discovers syntax, entities, and sentiment in text, and classifies text into a predefined set of categories.

👍 ↩ 🏳 upvoted 3 times

👤 **shankalman717** 1 year, 8 months ago

Selected Answer: B

If you do not have enough data to train a model from scratch, then it may be more appropriate to use a pre-trained model or a pre-made Jupyter Notebook

pre-made Jupyter Notebook.

Option B, the Cloud Natural Language API, could still be a viable option if you have access to labeled data for sentiment analysis. The API provides pre-trained models for sentiment analysis that you can use to classify text. However, if you have custom categories or labels, then you would need to train a custom model, which may not be feasible with limited data.

👍 ↩ ⚑ upvoted 4 times

⊟ 👤 **enghabeth** 1 year, 8 months ago

Selected Answer: A

https://www.toptal.com/machine-learning/google-nlp-tutorial#:~:text=Google%20Natural%20Language%20API%20vs.&text=Google%20AutoML%20Natural%20Language%20is,t%20require%20machine%20learning%20knowledge.
In this case need custom categories without writing code

👍 ↩ ⚑ upvoted 2 times

⊟ 👤 **John_Pongthorn** 1 year, 9 months ago

Selected Answer: A

Quickly ==> A and B and custom categories + you do not have enough data to train a model (it doesn't mean no data to train) it will probably have a few samples Let's say 10 samples) as this link https://cloud.google.com/natural-language/automl/docs/beginners-guide#include-enough-labeled-examples-in-each-category
==> A

👍 ↩ ⚑ upvoted 2 times

⊟ 👤 **John_Pongthorn** 1 year, 9 months ago

Selected Answer: B

Quickly ==> A and B and custom categories + you do not have enough data to train a model (it doesn't mean no data to train) it will probably have a few samples Let's say 10 samples)
==> B

👍 ↩ ⚑ upvoted 1 times

⊟ 👤 **John_Pongthorn** 1 year, 9 months ago

Sorry, I go with A A A A A A

👍 ↩ ⚑ upvoted 3 times

⊟ 👤 **John_Pongthorn** 1 year, 9 months ago

https://cloud.google.com/natural-language/automl/docs/beginners-guide#include-enough-labeled-examples-in-each-category

👍 ↩ ⚑ upvoted 2 times

⊟ 👤 **Omi_04040** 1 year, 10 months ago

B is the correct answer
AutoML needs data for training and its clearly mentioned we don't have any data.

👍 ↩ ⚑ upvoted 2 times

⊟ 👤 **tavva_prudhvi** 1 year, 7 months ago

they said, "do not have enough data"!!!!

👍 ↩ ⚑ upvoted 1 times

⊟ 👤 **hiromi** 1 year, 10 months ago

Selected Answer: A

A
wish0035 explained

👍 ↩ ⚑ upvoted 1 times

⊟ 👤 **Pancy** 1 year, 10 months ago

B is the correct answer. The API connects with the prebuilt Google NLP model for prediction

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