EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 239 DISCUSSI...

Actual exam question from Google's Professional Machine Learning Engineer
Question #: 239
Topic #: 1
[All Professional Machine Learning Engineer Questions]

You work for a pet food company that manages an online forum. Customers upload photos of their pets on the forum to share with others. About 20 photos are uploaded daily. You want to automatically and in near real time detect whether each uploaded photo has an animal. You want to prioritize time and minimize cost of your application development and deployment. What should you do?

A. Send user-submitted images to the Cloud Vision API. Use object localization to identify all objects in the image and compare the results against a list of animals.

B. Download an object detection model from TensorFlow Hub. Deploy the model to a Vertex AI endpoint. Send new user-submitted images to the model endpoint to classify whether each photo has an animal.

C. Manually label previously submitted images with bounding boxes around any animals. Build an AutoML object detection model by using Vertex AI. Deploy the model to a Vertex AI endpoint Send new user-submitted images to your model endpoint to detect whether each photo has an animal.

D. Manually label previously submitted images as having animals or not. Create an image dataset on Vertex AI. Train a classification model by using Vertex AutoML to distinguish the two classes. Deploy the model to a Vertex AI endpoint. Send new user-submitted images to your model endpoint to classify whether each photo has an animal.

Show Suggested Answer

by shadz10 at *Jan. 16, 2024, 1:14 p.m.*

Comments

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b1a8fae Highly Voted 9 months, 1 week ago

Selected Answer: A

A. B would also work and I wonder if cost would be lower, but I think going with the google hosted service is most times the most likely choice to be correct.

upvoted 9 times

louisaok 1 day, 17 hours ago

Agree. The main purpose for google certification is to Promote GCP services.

upvoted 1 times

Dagogi96 9 months ago

I think the same, if the question mentions other services and gives you an alternative that Google has, obviously, the "best option" is Google, although I think the same, I think that a model downloaded from a HUB would possibly save us a few how many euros..

upvoted 3 times

d6e1ae4 Most Recent 2 months ago

Selected Answer: D

The labeling process is simpler than object detection, as it's just a binary classification. AutoML simplifies the model creation process, reducing development time. For the relatively low volume of images (20 per day), this solution is likely to be cost-effective in the long run.

Why not A? Cloud Vision is overkill for a binary classification and it is very expensive.

upvoted 1 times

gscharly 6 months ago

Selected Answer: A

agree with b1a8fae

upvoted 1 times

CHARLIE2108 8 months, 2 weeks ago

Selected Answer: B

I went Option B

upvoted 2 times

shadz10 9 months, 1 week ago

Selected Answer: A

As minimising time and cost are of priority and considering the small subset of images I believe A is the best option

upvoted 4 times

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