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Exam Professional Machine Learning Engineer All Questions

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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 204 DISCUSSI...

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 204

Topic #: 1

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You work for an auto insurance company. You are preparing a proof-of-concept ML application that uses images of damaged vehicles to infer damaged parts. Your team has assembled a set of annotated images from damage claim documents in the company's database. The annotations associated with each image consist of a bounding box for each identified damaged part and the part name. You have been given a sufficient budget to train models on Google Cloud. You need to quickly create an initial model. What should you do?

- A. Download a pre-trained object detection model from TensorFlow Hub. Fine-tune the model in Vertex AI Workbench by using the annotated image data.
- B. Train an object detection model in AutoML by using the annotated image data.
- C. Create a pipeline in Vertex AI Pipelines and configure the AutoMLTrainingJobRunOp component to train a custom object detection model by using the annotated image data.
- D. Train an object detection model in Vertex AI custom training by using the annotated image data.

Show Suggested Answer

by [pikachu007](#) at Jan. 13, 2024, 4:34 a.m.

Comments

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  **Foxy2021** 1 week, 3 days ago

My vote is B

   upvoted 1 times

  **VinaoSilva** 3 months, 3 weeks ago

Selected Answer: B

quickly create an initial model = automl

   upvoted 1 times

  **pinimichele01** 6 months, 2 weeks ago

Selected Answer: B

went with B

   upvoted 2 times

  **edoo** 7 months, 2 weeks ago

Selected Answer: B

By doing B we are doing D. I suppose B is more specific about the model and thus "more" correct?
Thoughts?

   upvoted 2 times

  **ddogg** 8 months, 3 weeks ago

Selected Answer: B

B makes the most sense, data is already labelled and a pretrained model may not fit for this specific case

   upvoted 1 times

  **pikachu007** 9 months, 1 week ago

Selected Answer: B

Speed: AutoML excels in creating high-quality models with minimal code and setup, significantly accelerating model development.

Ease of use: It provides a user-friendly interface and automates many aspects of model training, making it accessible even for those without extensive ML expertise.

Automatic optimization: AutoML automatically handles hyperparameter tuning, feature engineering, and architecture selection, reducing manual effort and expertise required.

Custom object detection: It supports custom object detection tasks, directly addressing the need to identify damaged parts in images.

   upvoted 4 times

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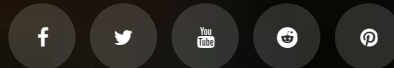
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