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📄 **EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 110 DISCUSSI...**

Actual exam question from Google's Professional Machine Learning Engineer
Question #: 110
Topic #: 1

[All Professional Machine Learning Engineer Questions]

You work for a toy manufacturer that has been experiencing a large increase in demand. You need to build an ML model to reduce the amount of time spent by quality control inspectors checking for product defects. Faster defect detection is a priority. The factory does not have reliable Wi-Fi. Your company wants to implement the new ML model as soon as possible. Which model should you use?

    A. AutoML Vision Edge mobile-high-accuracy-1 model

    B. AutoML Vision Edge mobile-low-latency-1 model

    C. AutoML Vision model

    D. AutoML Vision Edge mobile-versatile-1 model

Show Suggested Answer

by 👤 mil_spyro at *Dec. 13, 2022, 9:01 p.m.*

Comments

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👤 **mil_spyro** `Highly Voted 👍` **1 year, 10 months ago**

Hence faster defect detection is a priority, AutoML Vision Edge mobile-low-latency-1 model should be the choice. This model is designed to run efficiently on mobile devices and prioritize low latency, which means that it can provide fast defect detection without requiring a connection to the cloud.
https://cloud.google.com/vision/automl/docs/train-edge

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    👤 **maukaba** **1 year ago**

    https://cloud.google.com/vertex-ai/docs/training/automl-edge-api

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👤 **hiromi** `Highly Voted 👍` **1 year, 10 months ago**

`Selected Answer: B`

B

"reduce the amount of time spent by quality control inspectors checking for product defects."-> low latency

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👤 **YushiSato** `Most Recent ⊘` **2 months, 1 week ago**

low latency (MOBILE_TF_LOW_LATENCY_1)
general purpose usage (MOBILE_TF_VERSATILE_1)
higher prediction quality (MOBILE_TF_HIGH_ACCURACY_1)

👍 ↩ 🚩 upvoted 1 times

👤 **fitri001** **6 months ago**

`Selected Answer: B`

The AutoML Vision Edge mobile-low-latency-1 model prioritizes speed over accuracy, making it ideal for real-time defect detection on the factory floor without a stable internet connection. This allows for faster inspections and quicker identification of faulty products.

👍 ↩ 🚩 upvoted 2 times

    👤 **fitri001** **6 months ago**

    Faster Defect Detection: This is the main priority, and the low-latency model is specifically designed for speed.
    Edge Device Compatibility: The model should run on a device without relying on Wi-Fi. AutoML Vision Edge models are optimized for edge deployments.

    👍 ↩ 🚩 upvoted 1 times

        👤 **fitri001** **6 months ago**

        A. AutoML Vision mobile-high-accuracy-1 model: While high accuracy is desirable, faster defect detection is the top priority in this case. This model might be slower due to its focus on accuracy.
        C. AutoML Vision model: This model is likely designed for cloud deployment and might not be suitable for running on an edge device without reliable Wi-Fi.
        D. AutoML Vision Edge mobile-versatile-1 model: This model prioritizes a balance between accuracy and latency. While faster than the high-accuracy model, it might be slower than the low-latency model for this specific use case.

        👍 ↩ 🚩 upvoted 2 times

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

`Selected Answer: B`

Edge device with low latency

👍 ↩ 🚩 upvoted 1 times

👤 **M25** **1 year, 5 months ago**

`Selected Answer: B`

Went with B

👍 ↩ 🚩 upvoted 1 times

👤 **TNT87** **1 year, 7 months ago**

`Selected Answer: B`

Answer B

👍 ↩ 🚩 upvoted 1 times

👤 **ares81** **1 year, 9 months ago**

`Selected Answer: B`

It's B.

👍 ↩ 🚩 upvoted 1 times

👤 **mil_spyro** **1 year, 10 months ago**

`Selected Answer: B`

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