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Exam Professional Machine Learning Engineer All Questions

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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 107 DISCUSSI...

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 107

Topic #: 1

[All Professional Machine Learning Engineer Questions]

You are an ML engineer at a bank that has a mobile application. Management has asked you to build an ML-based biometric authentication for the app that verifies a customer's identity based on their fingerprint. Fingerprints are considered highly sensitive personal information and cannot be downloaded and stored into the bank databases. Which learning strategy should you recommend to train and deploy this ML mode?

- A. Data Loss Prevention API
- B. Federated learning
- C. MD5 to encrypt data
- D. Differential privacy

Show Suggested Answer

by Amil_spyro at Dec. 13, 2022, 9:52 p.m.

Comments

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□ ♣ hiromi Highly Voted ★ 1 year, 10 months ago **Selected Answer: B** R With federated learning, all the data is collected, and the model is trained with algorithms across multiple decentralized edge devices such as cell phones or websites, without exchanging them. (Journey to Become a Google Cloud Machine Learning Engineer: Build the mind and hand of a Google Certified ML professional) upvoted 9 times ☐ ♣ fitri001 Most Recent ② 6 months, 2 weeks ago Selected Answer: B Federated learning allows training the model on the user's devices themselves. pen_spark expand more The model updates its parameters based on local training data on the device without ever needing the raw fingerprint information to leave the device. This ensures the highest level of privacy for sensitive biometric data. upvoted 1 times E fitri001 6 months, 2 weeks ago Data Loss Prevention API (DLAPI): This focuses on protecting data at rest and in transit, not relevant to training a model without storing data. MD5 Encryption: This is a one-way hashing function, not suitable for encryption and decryption needed for training.expand more Differential privacy: While it adds noise to protect privacy, it's not ideal for training image recognition models like fingerprint identification. upvoted 1 times Voyager2 1 year, 5 months ago B. Federated learning. "information and cannot be downloaded and stored into the bank databases" That excludes DLP. ederated Learning enables mobile phones to collaboratively learn a shared prediction model while keeping all the training data on device, decoupling the ability to do machine learning from the need to store the data in the cloud. upvoted 2 times ■ M25 1 year, 6 months ago **Selected Answer: B** Went with B upvoted 1 times 😑 🏜 Yajnas_arpohc 1 year, 7 months ago **Selected Answer: B** I think the giveaway is in the question "Which learning strategy.."... Federated Learning seems to be the only one! upvoted 3 times ■ TNT87 1 year, 8 months ago Selected Answer: B B. Federated learning would be the best learning strategy to train and deploy the ML model for biometric authentication in this scenario. Federated learning allows for training an ML model on distributed data without transferring the raw data to a centralized location. upvoted 2 times = 2zzzzoooo 1 year, 8 months ago Selected Answer: A Ans is A for me upvoted 1 times ares81 1 year, 10 months ago Selected Answer: A It seems A, to me. upvoted 1 times ■ mil_spyro 1 year, 10 months ago Selected Answer: B Federated Learning enables mobile phones to collaboratively learn a shared prediction model while keeping all the training

data on device.

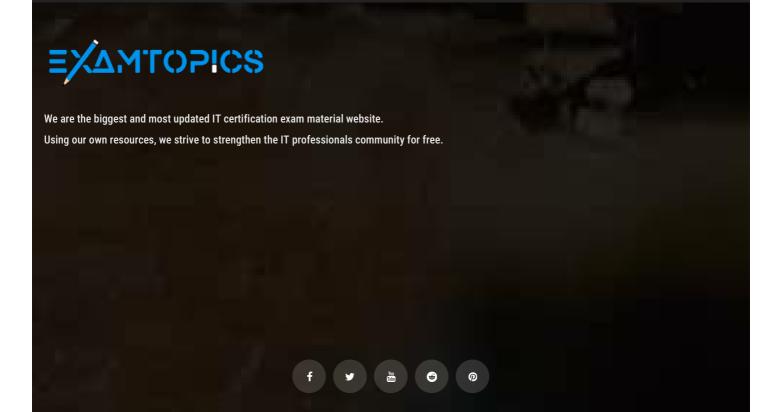
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https://ai.googleblog.com/2017/04/federated-learning-collaborative.html

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