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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 1 DISCUSSION

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

You are building an ML model to detect anomalies in real-time sensor data. You will use Pub/Sub to handle incoming requests. You want to store the results for analytics and visualization. How should you configure the pipeline?

A. 1 = Dataflow, 2 = AI Platform, 3 = BigQuery

B. 1 = DataProc, 2 = AutoML, 3 = Cloud Bigtable

C. 1 = BigQuery, 2 = AutoML, 3 = Cloud Functions

D. 1 = BigQuery, 2 = AI Platform, 3 = Cloud Storage

Show Suggested Answer

by inder0007 at *June 2, 2021, 9:45 p.m.*

Comments

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esuaaaa Highly Voted 3 years, 4 months ago
Definitely A. Dataflow is must.

upvoted 22 times

inder0007 Highly Voted 3 years, 4 months ago

Even if I follow the link, it should be dataflow, AI-Platform and Bigquery.
Real answer should be A

upvoted 11 times

jkkim_jt Most Recent 3 days, 7 hours ago

Selected Answer: A

ChatGPT Prompt: Using Google Pub/Sub Define ML Pipeline for Anomaly Detection
```mermaid
graph TD;
A[Data Source] -->|Pub/Sub Topic| B[Pub/Sub]
B --> C[Dataflow for Preprocessing]
C --> D[ML Model Inference (AI Platform)]
D -->|Prediction| E[BigQuery / Cloud Storage]
D -->|Alert| F[Cloud Functions]
```

upvoted 1 times

jkkim_jt 3 days, 7 hours ago

ChatGPT Prompt: Using Google Pub/Sub Define ML Pipeline for Anomaly Detection
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B --> C[Dataflow for Preprocessing]
C --> D[ML Model Inference (AI Platform)]
D -->|Prediction| E[BigQuery / Cloud Storage]
D -->|Alert| F[Cloud Functions]
```

upvoted 1 times

nktyagi 1 month ago

Selected Answer: A

To preprocess data you will use Dataflow, and then you can use the Vertex AI platform for training and serving. Since it's a recommendation use case, Cloud BigQuery is the recommended NoSQL store to manage this use case storage at scale and reduce latency.

upvoted 2 times

LeumaS_NoswaY 1 month ago

PubSub -> Dataflow -> AI Platform -> BiqQuery

upvoted 1 times

Yorko 3 months, 2 weeks ago

Selected Answer: A

BigQuery for analytics 100%

upvoted 1 times

PhilipKoku 4 months, 2 weeks ago

Selected Answer: A

Big Query is ideal for analytics

upvoted 1 times

RPS007 6 months ago

Selected Answer: A

Verified Answer

upvoted 1 times

Shreeti_Saha 6 months, 2 weeks ago

Option A

upvoted 1 times

fragkris 10 months, 3 weeks ago

Selected Answer: A

A - Dataflow is the only correct option for this case.

upvoted 1 times

RangasamyArran 11 months, 3 weeks ago

AutoML is useful for labeled data. So either A or D. Dataflow is must for pipeline so A is correct

upvoted 1 times

LMDY 1 year ago

Selected Answer: A

A. Definitely it's the correct answer

upvoted 1 times

deepakno 1 year, 1 month ago

This use case similar to anomaly detection also points to A only.
https://cloud.google.com/blog/products/data-analytics/anomaly-detection-using-streaming-analytics-and-ai

upvoted 1 times

sachinbhavar 1 year, 2 months ago

The correct answer is D. 1 = BigQuery, 2 = AI Platform, 3 = Cloud Storage.

upvoted 1 times

Remi2021 1 year, 3 months ago

right answer i A. Dataflow is a must.

upvoted 1 times

Puneet2022 1 year, 5 months ago

Selected Answer: A

Dataflow is required

upvoted 1 times

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