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EXAM PROFESSIONAL MACHINE LEARNING ENGINEER TOPIC 1 QUESTION 281 DISCUSSI...

Actual exam question from Google's Professional Machine Learning Engineer

Question #: 281

Topic #: 1

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You work at a large organization that recently decided to move their ML and data workloads to Google Cloud. The data engineering team has exported the structured data to a Cloud Storage bucket in Avro format. You need to propose a workflow that performs analytics, creates features, and hosts the features that your ML models use for online prediction. How should you configure the pipeline?

- A. Ingest the Avro files into Cloud Spanner to perform analytics. Use a Dataflow pipeline to create the features, and store them in Vertex AI Feature Store for online prediction.
- B. Ingest the Avro files into BigQuery to perform analytics. Use a Dataflow pipeline to create the features, and store them in Vertex AI Feature Store for online prediction.
- C. Ingest the Avro files into Cloud Spanner to perform analytics. Use a Dataflow pipeline to create the features, and store them in BigQuery for online prediction.
- D. Ingest the Avro files into BigQuery to perform analytics. Use BigQuery SQL to create features and store them in a separate BigQuery table for online prediction.

Show Suggested Answer

by [guilhermebutzke](#) at Feb. 19, 2024, 3:25 p.m.

Comments

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  **guilhermebutzke** Highly Voted  8 months ago

Selected Answer: B




My Answer: B

"You need to propose a workflow that performs analytics, creates features, and hosts ": Ingest the Avro files into BigQuery to perform analytics

"workflow that performs analytics, creates features": Dataflow pipeline to create the features

"and hosts the features that your ML models use for online prediction":store them in Vertex AI Feature Store for online prediction

   upvoted 6 times

  **AzureDP900** Most Recent  3 months, 2 weeks ago


B is right

The original audio recordings have an 8 kHz sample rate, which is sufficient for speech recognition.

Using the Speech-to-Text API with synchronous recognition would require your application to wait for the transcription process to complete before proceeding. This could lead to performance issues and delays in processing large volumes of audio data.

Asynchronous recognition, on the other hand, allows your application to continue processing without waiting for the transcription process to complete. The transcribed text can be retrieved later when needed.

   upvoted 1 times

  **VinaoSilva** 3 months, 3 weeks ago

Selected Answer: B

"performs analytics" = Bigquery

"hosts the features" = Vertex AI Feature Store"

   upvoted 1 times

  **emsherff** 6 months, 2 weeks ago

Selected Answer: B

Vertex AI Feature Store is designed for managing and serving features for online prediction with low latency.

   upvoted 2 times

  **MultiCloudIronMan** 6 months, 2 weeks ago

Selected Answer: A

I think the answer is A because BigQuery does not support Avro format but CloudSpanner does.

   upvoted 1 times

  **b2aaace** 6 months, 1 week ago

FYI BigQuery supports the Avro format. Please check your facts

   upvoted 4 times

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