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QUESTION 1

You are an ML engineer at a global shoe store. You manage the ML models for the company's website. You are asked to build a model that will recommend new products to the user based on their purchase behavior and similarity with other users. What should you do?

- A. Build a classification model
- B. Build a knowledge-based filtering model
- C. Build a collaborative-based filtering model
- D. Build a regression model using the features as predictors

Correct Answer: C

Reference: <https://cloud.google.com/solutions/recommendations-using-machine-learning-on-compute-engine>

QUESTION 2

You work on a team in a data center that is responsible for server maintenance. Your management team wants you to build a predictive maintenance solution that uses monitoring data to detect potential server failures. Incident data has not been labeled yet. What should you do first?

- A. Train a time-series model to predict the machines' performance values. Configure an alert if a machine's actual performance values significantly differ from the predicted performance values.
- B. Develop a simple heuristic (e.g., based on z-score) to label the machines' historical performance data. Use this heuristic to monitor server performance in real time.
- C. Develop a simple heuristic (e.g., based on z-score) to label the machines' historical performance data. Train a model to predict anomalies based on this labeled dataset.
- D. Hire a team of qualified analysts to review and label the machines' historical performance data. Train a model based on this manually labeled dataset.

Correct Answer: B

<https://developers.google.com/machine-learning/guides/rules-of-ml>

QUESTION 3

You are training a TensorFlow model on a structured dataset with 100 billion records stored in several CSV files. You need to improve the input/output execution performance. What should you do?

- A. Load the data into BigQuery, and read the data from BigQuery.
- B. Load the data into Cloud Bigtable, and read the data from Bigtable.
- C. Convert the CSV files into shards of TFRecords, and store the data in Cloud Storage.



D. Convert the CSV files into shards of TFRecords, and store the data in the Hadoop Distributed File System (HDFS).

Correct Answer: C

Reference: <https://cloud.google.com/dataflow/docs/guides/templates/provided-batch>

QUESTION 4

You are training an object detection machine learning model on a dataset that consists of three million X-ray images, each roughly 2 GB in size. You are using Vertex AI Training to run a custom training application on a Compute Engine instance with 32-cores, 128 GB of RAM, and 1 NVIDIA P100 GPU. You notice that model training is taking a very long time. You want to decrease training time without sacrificing model performance. What should you do?

- A. Increase the instance memory to 512 GB and increase the batch size.
- B. Replace the NVIDIA P100 GPU with a v3-32 TPU in the training job.
- C. Enable early stopping in your Vertex AI Training job.
- D. Use the `tf.distribute.Strategy` API and run a distributed training job.

Correct Answer: D

QUESTION 5

You are an ML engineer at a global car manufacture. You need to build an ML model to predict car sales in different cities around the world. Which features or feature crosses should you use to train city-specific relationships between car type and number of sales?

- A. Three individual features: binned latitude, binned longitude, and one-hot encoded car type.
- B. One feature obtained as an element-wise product between latitude, longitude, and car type.
- C. One feature obtained as an element-wise product between binned latitude, binned longitude, and one-hot encoded car type.
- D. Two feature crosses as an element-wise product: the first between binned latitude and one-hot encoded car type, and the second between binned longitude and one-hot encoded car type.

Correct Answer: C

<https://developers.google.com/machine-learning/crash-course/feature-crosses/check-your-understanding>

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