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Question #9

Topic 1

You are developing ML models with AI Platform for image segmentation on CT scans. You frequently update your model architectures based on the newest available research papers, and have to rerun training on the same dataset to benchmark their performance. You want to minimize computation costs and manual intervention while having version control for your code. What should you do?

- A. Use Cloud Functions to identify changes to your code in Cloud Storage and trigger a retraining job.
- B. Use the gcloud command-line tool to submit training jobs on AI Platform when you update your code.
- C. Use Cloud Build linked with Cloud Source Repositories to trigger retraining when new code is pushed to the repository.
- D. Create an automated workflow in Cloud Composer that runs daily and looks for changes in code in Cloud Storage using a sensor.

Question #10

Topic 1

Your team needs to build a model that predicts whether images contain a driver's license, passport, or credit card. The data engineering team already built the pipeline and generated a dataset composed of 10,000 images with driver's licenses, 1,000 images with passports, and 1,000 images with credit cards. You now have to train a model with the following label map: ['~drivers\_license', '~passport', '~credit\_card']. Which loss function should you use?

- A. Categorical hinge
- B. Binary cross-entropy
- C. Categorical cross-entropy
- D. Sparse categorical cross-entropy

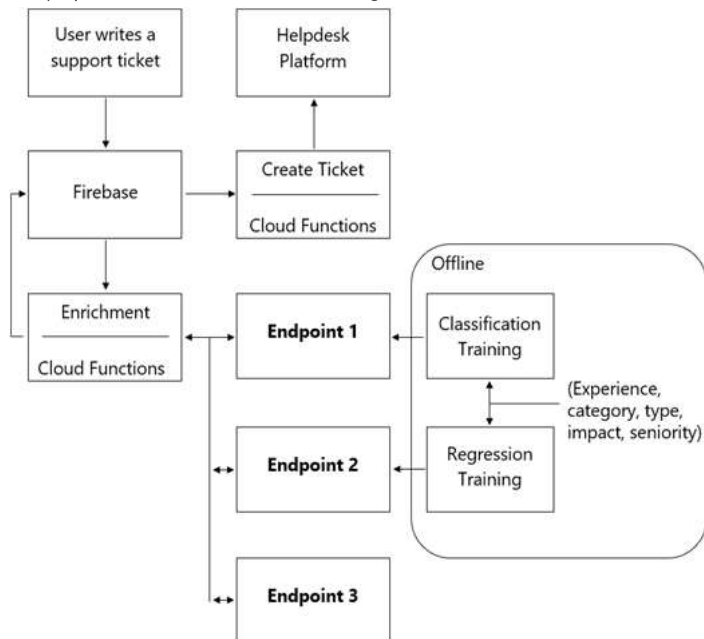
Question #11

Topic 1

You are designing an ML recommendation model for shoppers on your company's ecommerce website. You will use Recommendations AI to build, test, and deploy your system. How should you develop recommendations that increase revenue while following best practices?

- A. Use the "Other Products You May Like" recommendation type to increase the click-through rate.
- B. Use the "Frequently Bought Together" recommendation type to increase the shopping cart size for each order.
- C. Import your user events and then your product catalog to make sure you have the highest quality event stream.
- D. Because it will take time to collect and record product data, use placeholder values for the product catalog to test the viability of the model.

You are designing an architecture with a serverless ML system to enrich customer support tickets with informative metadata before they are routed to a support agent. You need a set of models to predict ticket priority, predict ticket resolution time, and perform sentiment analysis to help agents make strategic decisions when they process support requests. Tickets are not expected to have any domain-specific terms or jargon. The proposed architecture has the following flow:



Which endpoints should the Enrichment Cloud Functions call?

- A. 1 = AI Platform, 2 = AI Platform, 3 = AutoML Vision
- B. 1 = AI Platform, 2 = AI Platform, 3 = AutoML Natural Language
- C. 1 = AI Platform, 2 = AI Platform, 3 = Cloud Natural Language API
- D. 1 = Cloud Natural Language API, 2 = AI Platform, 3 = Cloud Vision API

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