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Google Professional Machine Learning Engineer

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Google Professional-Machine-Learning-Engineer Exam Syllabus Topics:

Section

Objectives

	- Evaluation • 1. Model validation strategies • 2. Evaluate model performance metrics
Topic 1: ML model development	- Model training and tuning • 1. Train models using TensorFlow / Vertex AI • 2. Hyperparameter tuning and optimization - Framing ML problems • 1. Translate business problems into ML tasks • 2. Define success metrics and evaluation criteria
Topic 2: Designing ML solutions	- ML architecture design • 1. Design scalable ML systems on GCP • 2. Select appropriate ML models and approaches - Model deployment • 1. Deploy models using Vertex AI endpoints • 2. Batch and online prediction systems
Topic 3: Deployment and operations	- Monitoring and maintenance • 1. Monitor model drift and performance • 2. Retraining and lifecycle management - Pipeline design
Topic 4: ML pipeline automation and orchestration	• 1. Build end-to-end ML pipelines • 2. Use Vertex AI Pipelines - Data ingestion and pipelines • 1. Use BigQuery and data processing services • 2. Build data pipelines for training and serving
Topic 5: Data preparation and processing	- Feature engineering • 1. Transform and preprocess datasets • 2. Feature selection and representation techniques

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Google Professional Machine Learning Engineer Sample Questions (Q117-Q122):

NEW QUESTION # 117

You developed a custom model by using Vertex AI to predict your application's user churn rate. You are using Vertex AI Model Monitoring for skew detection. The training data stored in BigQuery contains two sets of features - demographic and behavioral. You later discover that two separate models trained on each set perform better than the original model. You need to configure a new model monitoring pipeline that splits traffic among the two models. You want to use the same prediction-sampling-rate and monitoring-frequency for each model. You also want to minimize management effort. What should you do?

- A. Keep the training dataset as is. Deploy both models to the same endpoint and submit a Vertex AI Model Monitoring job with a monitoring-config-from parameter that accounts for the model IDs and feature selections.
- B. Separate the training dataset into two tables based on demographic and behavioral features. Deploy both models to the same endpoint and submit a Vertex AI Model Monitoring job with a monitoring-config-from parameter that accounts for the model IDs and training datasets.
- C. Keep the training dataset as is. Deploy the models to two separate endpoints and submit two Vertex AI Model Monitoring jobs with appropriately selected feature-thresholds parameters.
- D. Separate the training dataset into two tables based on demographic and behavioral features. Deploy the models to two separate endpoints, and submit two Vertex AI Model Monitoring jobs.

Answer: A

NEW QUESTION # 118

You have a large corpus of written support cases that can be classified into 3 separate categories: Technical Support, Billing Support, or Other Issues. You need to quickly build, test, and deploy a service that will automatically classify future written requests into one of the categories. How should you configure the pipeline?

- A. Use BigQuery ML to build and test a logistic regression model to classify incoming requests. Use BigQuery ML to perform inference.
- B. Use the Cloud Natural Language API to obtain metadata to classify the incoming cases.
- C. Create a TensorFlow model using Google's BERT pre-trained model. Build and test a classifier, and deploy the model using Vertex AI.
- D. Use AutoML Natural Language to build and test a classifier. Deploy the model as a REST API.

Answer: D

NEW QUESTION # 119

Your data science team has requested a system that supports scheduled model retraining, Docker containers, and a service that supports autoscaling and monitoring for online prediction requests. Which platform components should you choose for this system?

- A. Cloud Composer, AI Platform Training with custom containers, and App Engine
- B. Cloud Composer, BigQuery ML, and AI Platform Prediction
- C. Kubeflow Pipelines and AI Platform Prediction
- D. Kubeflow Pipelines and App Engine

Answer: C

NEW QUESTION # 120

You have a functioning end-to-end ML pipeline that involves tuning the hyperparameters of your ML model using AI Platform, and then using the best-tuned parameters for training. Hypertuning is taking longer than expected and is delaying the downstream processes. You want to speed up the tuning job without significantly compromising its effectiveness. Which actions should you take? Choose 2 answers.

- A. Change the search algorithm from Bayesian search to random search.
- B. Decrease the range of floating-point values.
- C. Set the early stopping parameter to TRUE.
- D. Decrease the maximum number of trials during subsequent training phases.
- E. Decrease the number of parallel trials.

Answer: C,D

Explanation:

Hyperparameter tuning is the process of finding the optimal values for the parameters of a machine learning model that affect its performance. AI Platform provides a service for hyperparameter tuning that can run multiple trials in parallel and use different search algorithms to find the best combination of hyperparameters.

However, hyperparameter tuning can be time-consuming and costly, especially if the search space is large and the model training is complex. Therefore, it is important to optimize the tuning job to reduce the time and resources required.

One way to speed up the tuning job is to set the early stopping parameter to TRUE. This means that the tuning service will automatically stop trials that are unlikely to perform well based on the intermediate results. This can save time and resources by avoiding unnecessary computations for trials that are not promising. The early stopping parameter can be set in the `trainingInput.hyperparameters` field of the training job request¹. Another way to speed up the tuning job is to decrease the maximum number of trials during subsequent training phases. This means that the tuning service will use fewer trials to refine the search space after the initial phase. This can reduce the time required for the tuning job to converge to the optimal solution. The maximum number of trials can be set in the `trainingInput.hyperparameters.maxTrials` field of the training job request¹. The other options are not effective ways to speed up the tuning job. Decreasing the number of parallel trials will reduce the concurrency of the tuning job and increase the overall time required. Decreasing the range of floating-point values will reduce the diversity of the search space and may miss some optimal solutions. Changing the search algorithm from Bayesian search to random search will reduce the efficiency of the tuning job and may require more trials to find the best solution¹. References: 1: Hyperparameter tuning overview

NEW QUESTION # 121

You work at a leading healthcare firm developing state-of-the-art algorithms for various use cases. You have unstructured textual data with custom labels. You need to extract and classify various medical phrases with these labels. What should you do?

- A. Use AutoML Entity Extraction to train a medical entity extraction model.
- B. Use TensorFlow to build a custom medical entity extraction model.
- **C. Use a BERT-based model to fine-tune a medical entity extraction model.**
- D. Use the Healthcare Natural Language API to extract medical entities.

Answer: C

Explanation:

Medical entity extraction is a task that involves identifying and classifying medical terms or concepts from unstructured textual data, such as electronic health records, clinical notes, or research papers. Medical entity extraction can help with various use cases, such as information retrieval, knowledge discovery, decision support, and data analysis¹.

One possible approach to perform medical entity extraction is to use a BERT-based model to fine-tune a medical entity extraction model. BERT (Bidirectional Encoder Representations from Transformers) is a pre-trained language model that can capture the contextual information from both left and right sides of a given token². BERT can be fine-tuned on a specific downstream task, such as medical entity extraction, by adding a task-specific layer on top of the pre-trained model and updating the model parameters with a small amount of labeled data³.

A BERT-based model can achieve high performance on medical entity extraction by leveraging the large-scale pre-training on general-domain corpora and the fine-tuning on domain-specific data. For example, Nesterov and Umerenkov⁴ proposed a novel method of doing medical entity extraction from electronic health records as a single-step multi-label classification task by fine-tuning a transformer model pre-trained on a large EHR dataset. They showed that their model can achieve human-level quality for most frequent entities.

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1 : Medical Named Entity Recognition from Un-labelled Medical Records based on Pre-trained Language Models and Domain Dictionary | Data Intelligence | MIT Press

2 : BERT: Pre-training of Deep Bidirectional Transformers for Language Understanding

3 : Fine-tuning BERT for Medical Entity Extraction

4 : Distantly supervised end-to-end medical entity extraction from electronic health records with human-level quality

NEW QUESTION # 122

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