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Google Professional Machine Learning Engineer Sample Questions (Q276-Q281):

NEW QUESTION # 276
An agency collects census information within a country to determine healthcare and social program needs by province and city. The census form collects responses for approximately 500 questions from each citizen.
Which combination of algorithms would provide the appropriate insights? (Choose two.)

- A. The principal component analysis (PCA) algorithm
- B. The factorization machines (FM) algorithm
- C. The k-means algorithm
- D. The Random Cut Forest (RCF) algorithm
- E. The Latent Dirichlet Allocation (LDA) algorithm

Answer: A,C

Explanation:
Explanation/Reference:
Explanation:
The PCA and K-means algorithms are useful in collection of data using census form.

NEW QUESTION # 277
You are going to train a DNN regression model with Keras APIs using this code:
How many trainable weights does your model have? (The arithmetic below is correct.)

- A. 501*256+257*128+128*2161408
- B. 501*256+257*128+2 161154
- C. 500*256*0 25+256*128*0 25+128*2 40448
- D. 500*256+256*128+128*2 161024

Answer: D

Explanation:
The number of trainable weights in a DNN regression model with Keras APIs can be calculated by multiplying the number of input units by the number of output units for each layer, and adding the number of bias units for each layer. The bias units are usually equal to the number of output units, except for the last layer, which does not have bias units if the activation function is softmax1. In this code, the model has three layers: a dense layer with 256 units and relu activation, a dropout layer with 0.25 rate, and a dense layer with 2 units and softmax activation. The input shape is 500. Therefore, the number of trainable weights is:
For the first layer: 500 input units * 256 output units + 256 bias units 128256 For the second layer: The dropout layer does not have any trainable weights, as it only randomly sets some of the input units to zero to prevent overfitting2.
For the third layer: 256 input units * 2 output units + 0 bias units 512 The total number of trainable weights is 128256 + 512 161024. Therefore, the correct answer is B.
Reference:
How to calculate the number of parameters for a Convolutional Neural Network?
Dropout (keras.io)

NEW QUESTION # 278
You recently joined a machine learning team that will soon release a new project. As a lead on the project, you are asked to determine the production readiness of the ML components. The team has already tested features and data, model development, and infrastructure. Which additional readiness check should you recommend to the team?

- A. Ensure that training is reproducible
- B. Ensure that model performance is monitored
- C. Ensure that feature expectations are captured in the schema
- D. Ensure that all hyperparameters are tuned

Answer: B

Explanation:
This is an important step in ensuring that the model has been developed and trained properly before it is put into production.
Model performance monitoring is also a crucial step to ensure that the model is working as expected after it is released, and to identify areas where further refinement may be necessary.
This would help to ensure that the model is performing well in production, and would also help to identify any issues that may arise over time.
Additionally, this would allow the team to better understand what changes need to be made in order to help the model perform optimally in production.

NEW QUESTION # 279
You need to build an ML model for a social media application to predict whether a user's submitted profile photo meets the requirements. The application will inform the user if the picture meets the requirements. How should you build a model to ensure that the application does not falsely accept a non-compliant picture?

- A. Use AutoML to optimize the model's F1 score in order to balance the accuracy of false positives and false negatives.
- B. Use Vertex AI Workbench user-managed notebooks to build a custom model that has three times as many examples of pictures that do not meet the profile photo requirements.
- C. Use AutoML to optimize the model's recall in order to minimize false negatives.
- D. Use Vertex AI Workbench user-managed notebooks to build a custom model that has three times as many examples of pictures that meet the profile photo requirements.

Answer: C

Explanation:
Recall is the ratio of true positives to the sum of true positives and false negatives. It measures how well the model can identify all the relevant cases. In this scenario, the relevant cases are the pictures that do not meet the profile photo requirements. Therefore, minimizing false negatives means minimizing the cases where the model incorrectly predicts that a non-compliant picture meets the requirements. By using AutoML to optimize the model's recall, the model will be more likely to reject a non-compliant picture and inform the user accordingly. References:
* [AutoML Vision] is a service that allows you to train custom ML models for image classification and object detection tasks. You can use AutoML to optimize your model for different metrics, such as recall, precision, or F1 score.
* [Recall] is one of the evaluation metrics for ML models. It is defined as TP / (TP + FN), where TP is the number of true positives and FN is the number of false negatives. Recall measures how well the model can identify all the relevant cases. A high recall means that the model has a low rate of false negatives.

NEW QUESTION # 280
You work for a magazine publisher and have been tasked with predicting whether customers will cancel their annual subscription. In your exploratory data analysis, you find that 90% of individuals renew their subscription every year, and only 10% of individuals cancel their subscription. After training a NN Classifier, your model predicts those who cancel their subscription with 99% accuracy and predicts those who renew their subscription with 82% accuracy. How should you interpret these results?

- A. This is not a good result because the model is performing worse than predicting that people will always renew their subscription.
- B. This is a good result because the accuracy across both groups is greater than 80%.
- C. This is not a good result because the model should have a higher accuracy for those who renew their subscription than for those who cancel their subscription.
- D. This is a good result because predicting those who cancel their subscription is more difficult, since there is less data for this group.

Answer: A

Explanation:
This is not a good result because the model is performing worse than predicting that people will always renew their subscription. This option has the following reasons:
* It indicates that the model is not learning from the data, but rather memorizing the majority class. Since
90% of the individuals renew their subscription every year, the model can achieve a 90% accuracy by simply predicting that everyone will renew their subscription, without considering the features or the patterns in the data. However, the model's accuracy for predicting those who renew their subscription is only 82%, which is lower than the baseline accuracy of 90%. This suggests that the model is overfitting to the minority class (those who cancel their subscription), and underfitting to the majority class (those who

renew their subscription).
* It implies that the model is not useful for the business problem, as it cannot identify the customers who are at risk of churning. The goal of predicting whether customers will cancel their annual subscription is to prevent customer churn and increase customer retention. However, the model's accuracy for predicting those who cancel their subscription is 99%, which is too high and unrealistic, as it means that the model can almost perfectly identify the customers who will churn, without any false positives or false negatives. This may indicate that the model is cheating or exploiting some leakage in the data, such as a feature that reveals the outcome of the prediction. Moreover, the model's accuracy for predicting those who renew their subscription is 82%, which is too low and unreliable, as it means that the model can miss many customers who will churn, and falsely label them as renewing customers. This can lead to losing customers and revenue, and failing to take proactive actions to retain them.
References:
* How to Evaluate Machine Learning Models: Classification Metrics | Machine Learning Mastery
* Imbalanced Classification: Predicting Subscription Churn | Machine Learning Mastery

NEW QUESTION # 281
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