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## **Professional-Machine-Learning-Engineer Reliable Exam Bootcamp | Professional-Machine-Learning-Engineer Reliable Test Pattern**

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## Google Professional Machine Learning Engineer Sample Questions (Q254-Q259):

### NEW QUESTION # 254

You work for a company that provides an anti-spam service that flags and hides spam posts on social media platforms. Your company currently uses a list of 200,000 keywords to identify suspected spam posts. If a post contains more than a few of these keywords, the post is identified as spam. You want to start using machine learning to flag spam posts for human review. What is the main advantage of implementing machine learning for this business case?

- A. A much longer keyword list can be used to flag spam posts.
- **B. New problematic phrases can be identified in spam posts.**
- C. Spam posts can be flagged using far fewer keywords.
- D. Posts can be compared to the keyword list much more quickly.

**Answer: B**

Explanation:

The main advantage of implementing machine learning for this business case is that new problematic phrases can be identified in spam posts. This is because machine learning can learn from the data and the feedback, and adapt to the changing patterns and trends of spam posts. Machine learning can also capture the semantic and contextual meaning of the posts, and not just rely on the presence or absence of keywords. By using machine learning, you can improve the accuracy and coverage of your anti-spam service, and detect new and emerging types of spam posts that may not be captured by the keyword list.

The other options are not advantages of implementing machine learning for this business case for the following reasons:

\* A. Posts can be compared to the keyword list much more quickly is not an advantage, as it does not improve the quality or effectiveness of the anti-spam service. It only improves the efficiency of the service, which is not the primary objective. Moreover, machine learning may not necessarily be faster than the keyword list, depending on the complexity and size of the model and the data.

\* C. A much longer keyword list can be used to flag spam posts is not an advantage, as it does not address the limitations or challenges of the keyword list approach. It only increases the size and complexity of the keyword list, which can make it harder to maintain and update. Moreover, a longer keyword list may not improve the accuracy or coverage of the anti-spam service, as it may introduce more false positives or false negatives, or miss new and emerging types of spam posts.

\* D. Spam posts can be flagged using far fewer keywords is not an advantage, as it does not reflect the capabilities or benefits of machine learning. It only reduces the size and complexity of the keyword list, which can make it easier to maintain and update. However, using fewer keywords may not improve the accuracy or coverage of the anti-spam service, as it may lose some information or meaning of the posts, or miss some types of spam posts.

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Professional ML Engineer Exam Guide

Preparing for Google Cloud Certification: Machine Learning Engineer Professional Certificate Google Cloud launches machine learning engineer certification Machine Learning for Spam Detection Spam Detection Using Machine Learning

### NEW QUESTION # 255

You are going to train a DNN regression model with Keras APIs using this code:

```

model = tf.keras.Sequential()
model.add(tf.keras.layers.Dense (
    256,
    use_bias=True,
    activation='relu',
    kernel_initializer=None,
    kernel_regularizer=None,
    input_shape=(500,)))
model.add(tf.keras.layers.Dropout(rate=0.25))
model.add(tf.keras.layers.Dense (
    128, use_bias=True,
    activation='relu',
    kernel_initializer='uniform',
    kernel_regularizer='l2'))
model.add(tf.keras.layers.Dropout(rate=0.25))
model.add(tf.keras.layers.Dense (
    2, use_bias=False,
    activation='softmax'))
model.compile(loss='mse')

```

How many trainable weights does your model have? (The arithmetic below is correct.)

- A.  $500*256+256*128+128*2 = 161024$
- B.  $501*256+257*128+2 = 161154$
- C.  $501*256+257*128+128*2=161408$
- D.  $500*256*0.25+256*128*0.25+128*2 = 40448$

**Answer: A**

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 softmax. 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:  $500 \text{ input units} * 256 \text{ output units} + 256 \text{ bias units} = 128256$

\* 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 overfitting.

\* For the third layer:  $256 \text{ input units} * 2 \text{ output units} + 0 \text{ bias units} = 512$  The total number of trainable weights is  $128256 + 512 = 161024$ . Therefore, the correct answer is B.

References:

- \* How to calculate the number of parameters for a Convolutional Neural Network?
- \* Dropout (keras.io)

#### NEW QUESTION # 256

A Machine Learning Specialist is preparing data for training on Amazon SageMaker. The Specialist is using one of the SageMaker built-in algorithms for the training. The dataset is stored in .CSV format and is transformed into a numpy.array, which appears to be negatively affecting the speed of the training.

What should the Specialist do to optimize the data for training on SageMaker?

- A. Use AWS Glue to compress the data into the Apache Parquet format.
- B. Use the SageMaker hyperparameter optimization feature to automatically optimize the data.
- C. Use the SageMaker batch transform feature to transform the training data into a DataFrame.
- **D. Transform the dataset into the RecordIO protobuf format.**

**Answer: D**

#### NEW QUESTION # 257

A Machine Learning Specialist working for an online fashion company wants to build a data ingestion solution for the company's Amazon S3-based data lake.

The Specialist wants to create a set of ingestion mechanisms that will enable future capabilities comprised of:

- \* Real-time analytics
- \* Interactive analytics of historical data
- \* Clickstream analytics
- \* Product recommendations

Which services should the Specialist use?

- **A. AWS Glue as the data catalog; Amazon Kinesis Data Streams and Amazon Kinesis Data Analytics for real-time data insights; Amazon Kinesis Data Firehose for delivery to Amazon ES for clickstream analytics; Amazon EMR to generate personalized product recommendations**
- B. Amazon Athena as the data catalog; Amazon Kinesis Data Streams and Amazon Kinesis Data Analytics for historical data insights; Amazon DynamoDB streams for clickstream analytics; AWS Glue to generate personalized product recommendations
- C. AWS Glue as the data catalog; Amazon Kinesis Data Streams and Amazon Kinesis Data Analytics for historical data insights; Amazon Kinesis Data Firehose for delivery to Amazon ES for clickstream analytics; Amazon EMR to generate personalized product recommendations
- D. Amazon Athena as the data catalog; Amazon Kinesis Data Streams and Amazon Kinesis Data Analytics for near-real-time data insights; Amazon Kinesis Data Firehose for clickstream analytics; AWS Glue to generate personalized product recommendations

**Answer: A**

Explanation:

Explanation

#### NEW QUESTION # 258

You are going to train a DNN regression model with Keras APIs using this code:

```

model = tf.keras.Sequential()
model.add(tf.keras.layers.Dense(
    256,
    use_bias=True,
    activation='relu',
    kernel_initializer=None,
    kernel_regularizer=None,
    input_shape=(500,)))
model.add(tf.keras.layers.Dropout(rate=0.25))
model.add(tf.keras.layers.Dense(
    128, use_bias=True,
    activation='relu',
    kernel_initializer='uniform',
    kernel_regularizer='l2'))
model.add(tf.keras.layers.Dropout(rate=0.25))
model.add(tf.keras.layers.Dense(
    2, use_bias=False,
    activation='softmax'))
model.compile(loss='mse')

```



How many trainable weights does your model have? (The arithmetic below is correct.)

- A.  $500*256+256*128+128*2 = 161024$
- B.  $501*256+257*128+2 = 161154$
- C.  $501*256+257*128+128*2=161408$
- D.  $500*256*0.25+256*128*0.25+128*2 = 40448$

**Answer: A**

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 softmax. 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:  $500 \text{ input units} * 256 \text{ output units} + 256 \text{ bias units} = 128256$

\* 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 overfitting.

\* For the third layer:  $256 \text{ input units} * 2 \text{ output units} + 0 \text{ bias units} = 512$  The total number of trainable weights is  $128256 + 512 = 161024$ . Therefore, the correct answer is B.

References:

\* How to calculate the number of parameters for a Convolutional Neural Network?

\* Dropout (keras.io)

## NEW QUESTION # 259

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After `NavCreateGetFileDialog` executes, this argument will hold a reference to Reliable Test Professional-Machine-Learning-Engineer Test the newly created Open dialog box, Adding context-sensitive argument checking to this function would amount to rewriting large parts of the operating system.

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