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Understanding functional and technical aspects of AWS Certified Machine Learning Specialty Exam Machine Learning Implementation and Operations

The following will be discussed here:

- Recommend and implement the appropriate machine learning services and features for a given problem
- Build machine learning solutions for performance, availability, scalability, resiliency, and fault tolerance
- Deploy and operationalize machine learning solutions
- Apply basic AWS security practices to machine learning solutions

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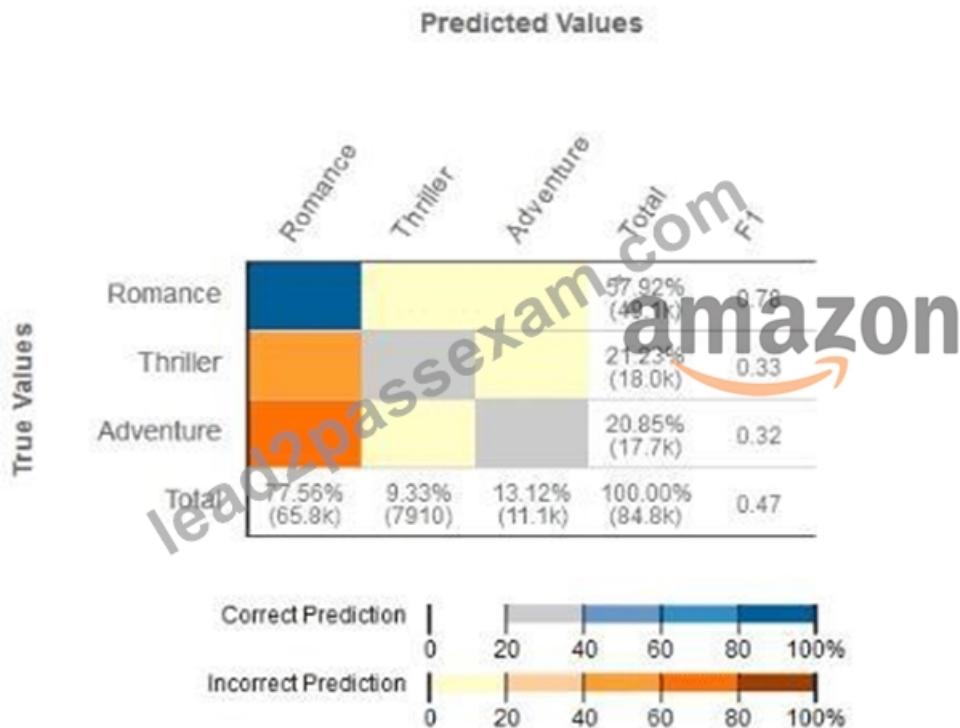
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Amazon AWS Certified Machine Learning - Specialty Sample Questions (Q44-Q49):

NEW QUESTION # 44

Given the following confusion matrix for a movie classification model, what is the true class frequency for Romance and the predicted class frequency for Adventure?



- A. The true class frequency for Romance is $77.56\% * 0.78$ and the predicted class frequency for Adventure is $20.85\% * 0.32$
- B. The true class frequency for Romance is 77.56% and the predicted class frequency for Adventure is 20.85%
- C. The true class frequency for Romance is 57.92% and the predicted class frequency for Adventure is 13.12%
- D. The true class frequency for Romance is 0.78 and the predicted class frequency for Adventure is $(0.47 - 0.32)$.

Answer: C

Explanation:

The true class frequency for Romance is the percentage of movies that are actually Romance out of all the movies. This can be calculated by dividing the sum of the true values for Romance by the total number of movies. The predicted class frequency for Adventure is the percentage of movies that are predicted to be Adventure out of all the movies. This can be calculated by dividing the sum of the predicted values for Adventure by the total number of movies. Based on the confusion matrix, the true class frequency for Romance is 57.92% and the predicted class frequency for Adventure is 13.12%. References: Confusion Matrix, Classification Metrics

NEW QUESTION # 45

This graph shows the training and validation loss against the epochs for a neural network. The network being trained is as follows

* Two dense layers one output neuron

* 100 neurons in each layer

* 100 epochs

* Random initialization of weights



Which technique can be used to improve model performance in terms of accuracy in the validation set?

- A. Random initialization of weights with appropriate seed
- B. Increasing the number of epochs
- C. Early stopping**
- D. Adding another layer with the 100 neurons

Answer: C

Explanation:

Early stopping is a technique that can be used to prevent overfitting and improve model performance on the validation set. Overfitting occurs when the model learns the training data too well and fails to generalize to new and unseen data. This can be seen in the graph, where the training loss keeps decreasing, but the validation loss starts to increase after some point. This means that the model is fitting the noise and patterns in the training data that are not relevant for the validation data. Early stopping is a way of stopping the training process before the model overfits the training data. It works by monitoring the validation loss and stopping the training when the validation loss stops decreasing or starts increasing. This way, the model is saved at the point where it has the best performance on the validation set. Early stopping can also save time and resources by reducing the number of epochs needed for training.

References:

Early Stopping

How to Stop Training Deep Neural Networks At the Right Time Using Early Stopping

NEW QUESTION # 46

A Machine Learning Specialist is building a model that will perform time series forecasting using Amazon SageMaker. The Specialist has finished training the model and is now planning to perform load testing on the endpoint so they can configure Auto Scaling for the model variant.

Which approach will allow the Specialist to review the latency, memory utilization, and CPU utilization during the load test?

- A. Send Amazon CloudWatch Logs that were generated by Amazon SageMaker to Amazon ES and use Kibana to query and visualize the log data
- B. Generate an Amazon CloudWatch dashboard to create a single view for the latency, memory utilization, and CPU utilization metrics that are outputted by Amazon SageMaker.**
- C. Review SageMaker logs that have been written to Amazon S3 by leveraging Amazon Athena and Amazon QuickSight to visualize logs as they are being produced.
- D. Build custom Amazon CloudWatch Logs and then leverage Amazon ES and Kibana to query and visualize the log data as it is generated by Amazon SageMaker.

Answer: B

Explanation:

<https://docs.aws.amazon.com/sagemaker/latest/dg/monitoring-cloudwatch.html>

NEW QUESTION # 47

A company that promotes healthy sleep patterns by providing cloud-connected devices currently hosts a sleep tracking application on AWS. The application collects device usage information from device users. The company's Data Science team is building a machine learning model to predict if and when a user will stop utilizing the company's devices. Predictions from this model are used by a downstream application that determines the best approach for contacting users.

The Data Science team is building multiple versions of the machine learning model to evaluate each version against the company's business goals. To measure long-term effectiveness, the team wants to run multiple versions of the model in parallel for long periods of time, with the ability to control the portion of inferences served by the models.

Which solution satisfies these requirements with MINIMAL effort?

- A. Build and host multiple models in Amazon SageMaker. Create an Amazon SageMaker endpoint configuration with multiple production variants. Programmatically control the portion of the inferences served by the multiple models by updating the endpoint configuration.
- B. Build and host multiple models in Amazon SageMaker Neo to take into account different types of medical devices. Programmatically control which model is invoked for inference based on the medical device type.
- C. Build and host multiple models in Amazon SageMaker. Create a single endpoint that accesses multiple models. Use Amazon SageMaker batch transform to control invoking the different models through the single endpoint.
- D. Build and host multiple models in Amazon SageMaker. Create multiple Amazon SageMaker endpoints, one for each model. Programmatically control invoking different models for inference at the application layer.

Answer: A

Explanation:

Amazon SageMaker is a service that allows users to build, train, and deploy ML models on AWS. Amazon SageMaker endpoints are scalable and secure web services that can be used to perform real-time inference on ML models. An endpoint configuration defines the models that are deployed and the resources that are used by the endpoint. An endpoint configuration can have multiple production variants, each representing a different version or variant of a model. Users can specify the portion of the inferences served by each production variant using the `initialVariantWeight` parameter. Users can also programmatically update the endpoint configuration to change the portion of the inferences served by each production variant using the

`UpdateEndpointWeightsAndCapacities` API. Therefore, option B is the best solution to satisfy the requirements with minimal effort. Option A is incorrect because creating multiple endpoints for each model would incur more cost and complexity than using a single endpoint with multiple production variants. Moreover, controlling the invocation of different models at the application layer would require more custom logic and coordination than using the `UpdateEndpointWeightsAndCapacities` API. Option C is incorrect because Amazon SageMaker Neo is a service that allows users to optimize ML models for different hardware platforms, such as edge devices. It is not relevant to the problem of running multiple versions of a model in parallel for long periods of time.

Option D is incorrect because Amazon SageMaker batch transform is a service that allows users to perform asynchronous inference on large datasets. It is not suitable for the problem of performing real-time inference on streaming data from device users.

References:

- * Deploying models to Amazon SageMaker hosting services - Amazon SageMaker
- * Update an Amazon SageMaker endpoint to accommodate new models - Amazon SageMaker
- * `UpdateEndpointWeightsAndCapacities` - Amazon SageMaker

NEW QUESTION # 48

A Machine Learning Specialist is working for a credit card processing company and receives an unbalanced dataset containing credit card transactions. It contains 99,000 valid transactions and 1,000 fraudulent transactions. The Specialist is asked to score a model that was run against the dataset. The Specialist has been advised that identifying valid transactions is equally as important as identifying fraudulent transactions. What metric is BEST suited to score the model?

- A. Precision
- B. Recall
- C. Root Mean Square Error (RMSE)
- D. Area Under the ROC Curve (AUC)

Answer: A

NEW QUESTION # 49

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