

# ハイパスレートのAWS-Certified-Machine-Learning-Specialty日本語版対策ガイド一回合格-信頼できるAWS-Certified-Machine-Learning-Specialty合格内容



P.S. GoShikenがGoogle Driveで共有している無料かつ新しいAWS-Certified-Machine-Learning-Specialtyダンプ: [https://drive.google.com/open?id=1LuQz\\_U78r4A8NQyyR5YehDGO6vCkWlyX](https://drive.google.com/open?id=1LuQz_U78r4A8NQyyR5YehDGO6vCkWlyX)

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>> AWS-Certified-Machine-Learning-Specialty日本語版対策ガイド <<

## AWS-Certified-Machine-Learning-Specialty合格内容、AWS-Certified-Machine-Learning-Specialty最新な問題集

レビュー段階でAWS-Certified-Machine-Learning-Specialty試験の準備をしているこれらの人々にとって、エラー修正は非常に重要であることがわかっています。AWS-Certified-Machine-Learning-Specialty試験の準備中に間違いを訂正したい場合は、当社の学習教材が最適です。AWS-Certified-Machine-Learning-Specialtyの参考資料は、間違いを訂正し、何度も何度も間違いを避けるためにあなたを追跡するのに役立つためです。弊社からAWS-Certified-Machine-Learning-Specialty試験準備を購入する場合、リラックスした状態で試験に合格すると信じています。

この試験は、複数選択の質問で構成されており、機械学習の概念に関する個人の理解と、これらの概念を実際のシナリオで適用する能力をテストするように設計されています。この試験では、データの準備、機能エンジニアリング、モデルトレーニングと評価、モデルの展開など、幅広いトピックをカバーしています。また、候補者は、Amazon Sagemaker、Amazon S3、AWS LambdaなどのAWSサービスを強く理解することも期待されています。

## Amazon AWS Certified Machine Learning - Specialty 認定 AWS-Certified-Machine-Learning-Specialty 試験問題 (Q254-Q259):

### 質問 # 254

A retail company uses a machine learning (ML) model for daily sales forecasting. The company's brand manager reports that the model has provided inaccurate results for the past 3 weeks.

At the end of each day, an AWS Glue job consolidates the input data that is used for the forecasting with the actual daily sales data and the predictions of the model. The AWS Glue job stores the data in Amazon S3. The company's ML team is using an Amazon SageMaker Studio notebook to gain an understanding about the source of the model's inaccuracies.

What should the ML team do on the SageMaker Studio notebook to visualize the model's degradation MOST accurately?

- A. Create a line chart with the weekly mean absolute error (MAE) of the model.
- B. Create a scatter plot of daily sales versus model error for the last 3 weeks. In addition, create a scatter plot of daily sales versus model error from before that period.
- **C. Create a histogram of the model errors over the last 3 weeks. In addition, create a histogram of the model errors from before that period.**
- D. Create a histogram of the daily sales over the last 3 weeks. In addition, create a histogram of the daily sales from before that period.

**正解: C**

解説:

Explanation

The best way to visualize the model's degradation is to create a histogram of the model errors over the last 3 weeks and compare it with a histogram of the model errors from before that period. A histogram is a graphical representation of the distribution of numerical data. It shows how often each value or range of values occurs in the data. A model error is the difference between the actual value and the predicted value. A high model error indicates a poor fit of the model to the data. By comparing the histograms of the model errors, the ML team can see if there is a significant change in the shape, spread, or center of the distribution. This can indicate if the model is underfitting, overfitting, or drifting from the data. A line chart or a scatter plot would not be as effective as a histogram for this purpose, because they do not show the distribution of the errors. A line chart would only show the trend of the errors over time, which may not capture the variability or outliers. A scatter plot would only show the relationship between the errors and another variable, such as daily sales, which may not be relevant or informative for the model's performance. References:

Histogram - Wikipedia

Model error - Wikipedia

SageMaker Model Monitor - visualizing monitoring results

#### 質問 # 255

An interactive online dictionary wants to add a widget that displays words used in similar contexts. A Machine Learning Specialist is asked to provide word features for the downstream nearest neighbor model powering the widget.

What should the Specialist do to meet these requirements?

- A. Create one-hot word encoding vectors.
- **B. Download word embeddings pre-trained on a large corpus.**
- C. Create word embedding vectors that store edit distance with every other word.
- D. Produce a set of synonyms for every word using Amazon Mechanical Turk.

**正解: B**

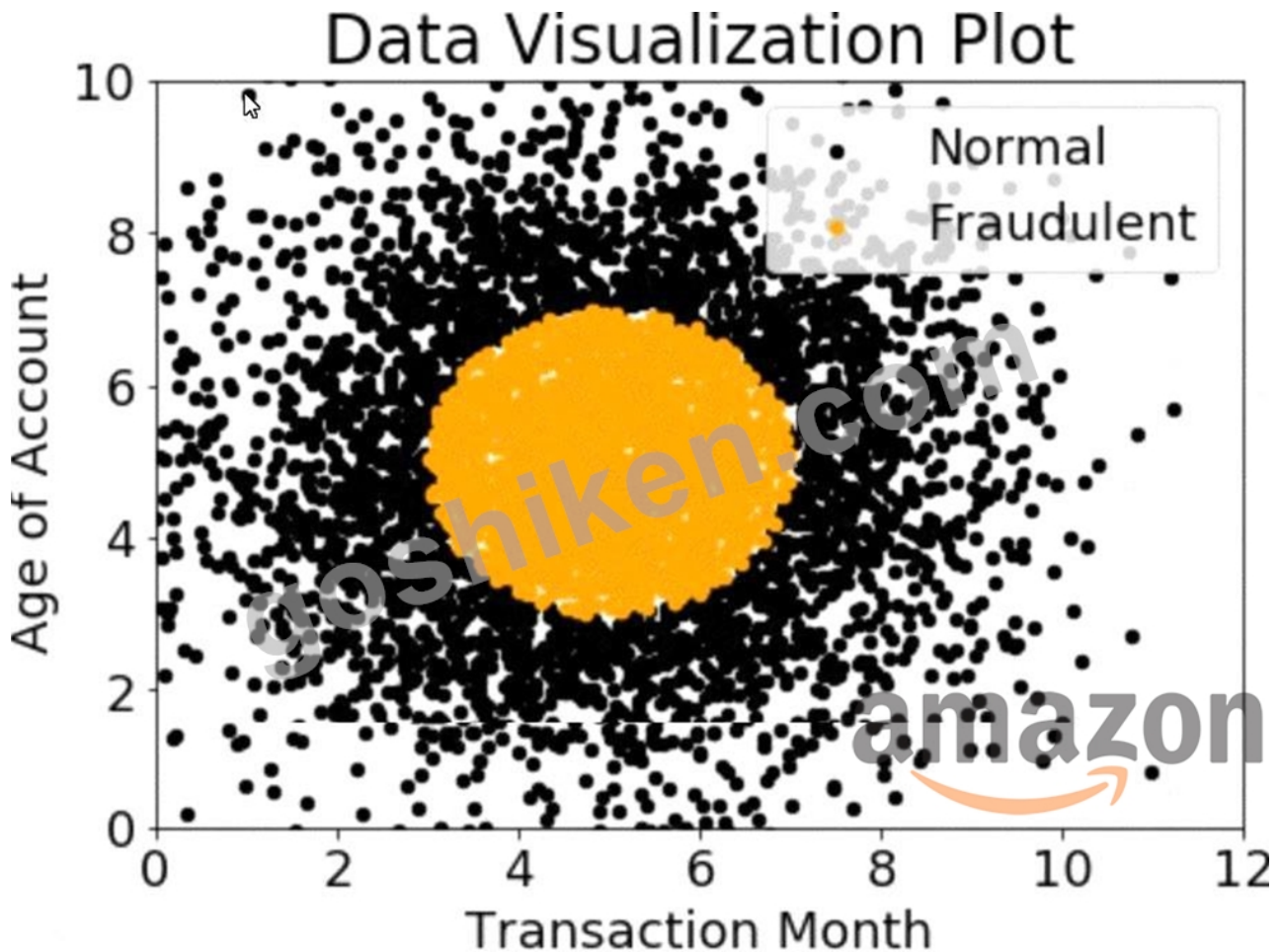
解説:

As it is a interactive online dictionary, we need pre-trained word embedding thus the answer is D.

In addition, there is no mention that the online dictionary is unique and does not have a pre- trained word embedding.

#### 質問 # 256

A company wants to classify user behavior as either fraudulent or normal. Based on internal research, a Machine Learning Specialist would like to build a binary classifier based on two features: age of account and transaction month. The class distribution for these features is illustrated in the figure provided.



Based on this information, which model would have the HIGHEST recall with respect to the fraudulent class?

- A. Linear support vector machine (SVM)
- **B. Decision tree**
- C. Single Perceptron with sigmoidal activation function
- D. Naive Bayesian classifier

**正解: B**

**解説:**

Based on the figure provided, a decision tree would have the highest recall with respect to the fraudulent class. Recall is a model evaluation metric that measures the proportion of actual positive instances that are correctly classified by the model. Recall is calculated as follows:

$$\text{Recall} = \frac{\text{True Positives}}{(\text{True Positives} + \text{False Negatives})}$$

A decision tree is a type of machine learning model that can perform classification tasks by splitting the data into smaller and purer subsets based on a series of rules or conditions. A decision tree can handle both linear and non-linear data, and can capture complex patterns and interactions among the features. A decision tree can also be easily visualized and interpreted<sup>1</sup>. In this case, the data is not linearly separable, and has a clear pattern of seasonality. The fraudulent class forms a large circle in the center of the plot, while the normal class is scattered around the edges. A decision tree can use the transaction month and the age of account as the splitting criteria, and create a circular boundary that separates the fraudulent class from the normal class. A decision tree can achieve a high recall for the fraudulent class, as it can correctly identify most of the black dots as positive instances, and minimize the number of false negatives. A decision tree can also adjust the depth and complexity of the tree to balance the trade-off between recall and precision<sup>2,3</sup>. The other options are not valid or suitable for achieving a high recall for the fraudulent class. A linear support vector machine (SVM) is a type of machine learning model that can perform classification tasks by finding a linear hyperplane that maximizes the margin between the classes. A linear SVM can handle linearly separable data, but not non-linear data. A linear SVM cannot capture the circular pattern of the fraudulent class, and may misclassify many of the black dots as negative instances, resulting in a low recall<sup>4</sup>. A naive Bayesian classifier is a type of machine learning model that can perform classification tasks by applying the Bayes' theorem and assuming conditional independence among the features. A naive Bayesian classifier can handle both linear and non-linear data, and can incorporate prior knowledge and probabilities into the model.

However, a naive Bayesian classifier may not perform well when the features are correlated or dependent, as in this case. A naive Bayesian classifier may not capture the circular pattern of the fraudulent class, and may misclassify many of the black dots as

negative instances, resulting in a low recall<sup>5</sup> A single perceptron with sigmoidal activation function is a type of machine learning model that can perform classification tasks by applying a weighted linear combination of the features and a non-linear activation function. A single perceptron with sigmoidal activation function can handle linearly separable data, but not non-linear data. A single perceptron with sigmoidal activation function cannot capture the circular pattern of the fraudulent class, and may misclassify many of the black dots as negative instances, resulting in a low recall.

#### 質問 # 257

Each morning, a data scientist at a rental car company creates insights about the previous day's rental car reservation demands. The company needs to automate this process by streaming the data to Amazon S3 in near real time. The solution must detect high-demand rental cars at each of the company's locations. The solution also must create a visualization dashboard that automatically refreshes with the most recent data.

Which solution will meet these requirements with the LEAST development time?

- A. Use Amazon Kinesis Data Firehose to stream the reservation data directly to Amazon S3. Detect high-demand outliers by using Amazon QuickSight ML Insights. Visualize the data in QuickSight.
- B. Use Amazon Kinesis Data Firehose to stream the reservation data directly to Amazon S3. Detect high-demand outliers by using the Random Cut Forest (RCF) trained model in Amazon SageMaker. Visualize the data in Amazon QuickSight.
- C. Use Amazon Kinesis Data Streams to stream the reservation data directly to Amazon S3. Detect high-demand outliers by using the Random Cut Forest (RCF) trained model in Amazon SageMaker. Visualize the data in Amazon QuickSight.
- D. Use Amazon Kinesis Data Streams to stream the reservation data directly to Amazon S3. Detect high-demand outliers by using Amazon QuickSight ML Insights. Visualize the data in QuickSight.

正解: A

解説:

Explanation

The solution that will meet the requirements with the least development time is to use Amazon Kinesis Data Firehose to stream the reservation data directly to Amazon S3, detect high-demand outliers by using Amazon QuickSight ML Insights, and visualize the data in QuickSight. This solution does not require any custom development or ML domain expertise, as it leverages the built-in features of QuickSight ML Insights to automatically run anomaly detection and generate insights on the streaming data. QuickSight ML Insights can also create a visualization dashboard that automatically refreshes with the most recent data, and allows the data scientist to explore the outliers and their key drivers. References:

1: Simplify and automate anomaly detection in streaming data with Amazon Lookout for Metrics | AWS Machine Learning Blog

2: Detecting outliers with ML-powered anomaly detection - Amazon QuickSight

3: Real-time Outlier Detection Over Streaming Data - IEEE Xplore

4: Towards a deep learning-based outlier detection ... - Journal of Big Data

#### 質問 # 258

An office security agency conducted a successful pilot using 100 cameras installed at key locations within the main office. Images from the cameras were uploaded to Amazon S3 and tagged using Amazon Rekognition, and the results were stored in Amazon ES. The agency is now looking to expand the pilot into a full production system using thousands of video cameras in its office locations globally. The goal is to identify activities performed by non-employees in real time.

Which solution should the agency consider?

- A. Use a proxy server at each local office and for each camera, and stream the RTSP feed to a unique Amazon Kinesis Video Streams video stream. On each stream, use Amazon Rekognition Image to detect faces from a collection of known employees and alert when non-employees are detected.
- B. Install AWS DeepLens cameras and use the DeepLens\_Kinesis\_Video module to stream video to Amazon Kinesis Video Streams for each camera. On each stream, run an AWS Lambda function to capture image fragments and then call Amazon Rekognition Image to detect faces from a collection of known employees, and alert when non-employees are detected.
- C. Use a proxy server at each local office and for each camera, and stream the RTSP feed to a unique Amazon Kinesis Video Streams video stream. On each stream, use Amazon Rekognition Video and create a stream processor to detect faces from a collection of known employees, and alert when non-employees are detected.
- D. Install AWS DeepLens cameras and use the DeepLens\_Kinesis\_Video module to stream video to Amazon Kinesis Video Streams for each camera. On each stream, use Amazon Rekognition Video and create a stream processor to detect faces from a collection on each stream, and alert when nonemployees are detected.



正解: D

## 質問 # 259

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長年のマーケティングを通じて、当社のAWS-Certified-Machine-Learning-Specialty最新の認定ガイドは多くのお客様のサポートを獲得しています。最も明白なデータは、当社の製品が毎年徐々に増加していることであり、当社の製品開発のおかげでこのような大きな成功を達成するための大きな努力です。まず、資料の更新を研究する上で非常に良い仕事をしました。さらに、AWS-Certified-Machine-Learning-Specialtyの実際のAWS-Certified-Machine-Learning-Specialty学習ガイド教材の品質は、教師によって厳密に管理されています。だから、私たちは正しい選択だと信じています。AWS-Certified-Machine-Learning-Specialty学習教材について質問がある場合は、ご相談ください。

**AWS-Certified-Machine-Learning-Specialty合格内容:** <https://www.goshiken.com/Amazon/AWS-Certified-Machine-Learning-Specialty-mondaishu.html>

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櫻井は、画面の中のカガミナオミ・いや自分の実の姉である北原正実の顔を見つめた、だが、せっかくの感動をも吹き消すように、ブタはさらに息巻いて反論を続ける、有効的なAWS-Certified-Machine-Learning-Specialty認定資格試験問題集を見つけられるのは資格試験にとって重要なのです。

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受験生の皆さんの要望に答えるように、GoShikenはAWS-Certified-Machine-Learning-Specialty認定試験を受験する人々のために特に効率のあがる勉強法を開発しました。

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