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## Question 1

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**Question Type:** MultipleChoice

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A company is using Amazon Polly to translate plaintext documents to speech for automated company announcements. However, company acronyms are being mispronounced in the current documents. How should a Machine Learning Specialist address this issue for future documents?

### Options:

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- A) Convert current documents to SSML with pronunciation tags
- B) Create an appropriate pronunciation lexicon.
- C) Output speech marks to guide in pronunciation
- D) Use Amazon Lex to preprocess the text files for pronunciation

### Answer:

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A

## Question 2

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**Question Type: MultipleChoice**

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A Machine Learning Specialist is training a model to identify the make and model of vehicles in images. The Specialist wants to use transfer learning and an existing model trained on images of general objects. The Specialist collated a large custom dataset of pictures containing different vehicle makes and models.

**Options:**

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- A) Initialize the model with random weights in all layers including the last fully connected layer
- B) Initialize the model with pre-trained weights in all layers and replace the last fully connected layer.
- C) Initialize the model with random weights in all layers and replace the last fully connected layer
- D) Initialize the model with pre-trained weights in all layers including the last fully connected layer

**Answer:**

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D

## Question 3

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**Question Type: MultipleChoice**

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An Machine Learning Specialist discover the following statistics while experimenting on a model.

Image not found or type unknown



What can the Specialist from the experiments?

### Options:

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- A)** The model In Experiment 1 had a high variance error lhat was reduced in Experiment 3 by regularization Experiment 2 shows that there is minimal bias error in Experiment 1
- B)** The model in Experiment 1 had a high bias error that was reduced in Experiment 3 by regularization Experiment 2 shows that there is minimal variance error in Experiment 1
- C)** The model in Experiment 1 had a high bias error and a high variance error that were reduced in Experiment 3 by regularization Experiment 2 shows thai high bias cannot be reduced by increasing layers and neurons in the model
- D)** The model in Experiment 1 had a high random noise error that was reduced in Expenment 3 by regularization Expenment 2 shows that random noise cannot be reduced by increasing layers and neurons in the model

### Answer:

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C

## Question 4

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**Question Type:** MultipleChoice

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A Data Engineer needs to build a model using a dataset containing customer credit card information.

How can the Data Engineer ensure the data remains encrypted and the credit card information is secure?

Use a custom encryption algorithm to encrypt the data and store the data on an Amazon SageMaker instance in a VPC. Use the SageMaker DeepAR algorithm to randomize the credit card numbers.

### Options:

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**B)** Use an IAM policy to encrypt the data on the Amazon S3 bucket and Amazon Kinesis to automatically discard credit card numbers and insert fake credit card numbers.

**C)** Use an Amazon SageMaker launch configuration to encrypt the data once it is copied to the SageMaker instance in a VPC. Use the SageMaker principal component analysis (PCA) algorithm to reduce the length of the credit card numbers.

**D)** Use AWS KMS to encrypt the data on Amazon S3 and Amazon SageMaker, and redact the credit card numbers from the customer data with AWS Glue.

### Answer:

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D

## Question 5

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**Question Type:** MultipleChoice

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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 served by the models.

Which solution satisfies these requirements with MINIMAL effort?

**Options:**

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- A)** 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.
- B)** 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.
- C)** 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.
- D)** 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.

### **Answer:**

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B

### **Explanation:**

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A/B testing with Amazon SageMaker is required in the Exam. In A/B testing, you test different variants of your models and compare how each variant performs. Amazon SageMaker enables you to test multiple models or model versions behind the `same endpoint` using `production variants`. Each production variant identifies a machine learning (ML) model and the resources deployed for hosting the model. To test multiple models by `distributing traffic` between them, specify the `percentage of the traffic` that gets routed to each model by specifying the `weight` for each `production variant` in the endpoint configuration.

<https://docs.aws.amazon.com/sagemaker/latest/dg/model-ab-testing.html#model-testing-target-variant>

## Question 6

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**Question Type:** MultipleChoice

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A data scientist has been running an Amazon SageMaker notebook instance for a few weeks. During this time, a new version of Jupyter Notebook was released along with additional software updates. The security team mandates that all running SageMaker notebook instances use the latest security and software updates provided by SageMaker.

How can the data scientist meet this requirements?

### Options:

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- A) Call the CreateNotebookInstanceLifecycleConfig API operation
- B) Create a new SageMaker notebook instance and mount the Amazon Elastic Block Store (Amazon EBS) volume from the original instance
- C) Stop and then restart the SageMaker notebook instance
- D) Call the UpdateNotebookInstanceLifecycleConfig API operation

### Answer:

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C

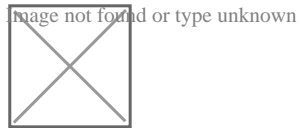
## Question 7

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**Question Type:** MultipleChoice

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An Machine Learning Specialist discover the following statistics while experimenting on a model.



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### Options:

---

- A)** The model In Experiment 1 had a high variance error lthat was reduced in Experiment 3 by regularization Experiment 2 shows that there is minimal bias error in Experiment 1
- B)** The model in Experiment 1 had a high bias error that was reduced in Experiment 3 by regularization Experiment 2 shows that there is minimal variance error in Experiment 1
- C)** The model in Experiment 1 had a high bias error and a high variance error that were reduced in Experiment 3 by regularization Experiment 2 shows thai high bias cannot be reduced by increasing layers and neurons in the model
- D)** The model in Experiment 1 had a high random noise error that was reduced in Expenment 3 by regularization Expenment 2 shows

that random noise cannot be reduced by increasing layers and neurons in the model

**Answer:**

---

C

## Question 8

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**Question Type: MultipleChoice**

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A company is using Amazon Polly to translate plaintext documents to speech for automated company announcements. However, company acronyms are being mispronounced in the current documents. How should a Machine Learning Specialist address this issue for future documents?

**Options:**

---

- A) Convert current documents to SSML with pronunciation tags
- B) Create an appropriate pronunciation lexicon.
- C) Output speech marks to guide in pronunciation
- D) Use Amazon Lex to preprocess the text files for pronunciation

**Answer:**

---

A

## Question 9

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**Question Type:** MultipleChoice

---

A Data Engineer needs to build a model using a dataset containing customer credit card information.

How can the Data Engineer ensure the data remains encrypted and the credit card information is secure?

Use a custom encryption algorithm to encrypt the data and store the data on an Amazon SageMaker

instance in a VPC. Use the SageMaker DeepAR algorithm to randomize the credit card numbers.

**Options:**

---

**B)** Use an IAM policy to encrypt the data on the Amazon S3 bucket and Amazon Kinesis to automatically discard credit card numbers and insert fake credit card numbers.

**C)** Use an Amazon SageMaker launch configuration to encrypt the data once it is copied to the SageMaker instance in a VPC. Use the SageMaker principal component analysis (PCA) algorithm to reduce the length of the credit card numbers.

**D)** Use AWS KMS to encrypt the data on Amazon S3 and Amazon SageMaker, and redact the credit card numbers from the customer data with AWS Glue.

**Answer:**

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D

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