

# Microsoft.AI-900J.v2021-02-15.q30

試験コード : AI-900J  
試験名称 : Microsoft Azure AI Fundamentals (AI-900日本語版)  
認証ベンダー : Microsoft  
無料問題の数 : 30  
バージョン : v2021-02-15  
ページの閲覧量 : 1993  
問題集の閲覧量 : 25227

<https://www.jpnsiken.com/shiken/Microsoft.AI-900J.v2021-02-15.q30.html>

## 質問: 1

ある会社は、顧客サービスエージェントのチームを雇用して、顧客に電話と電子メールのサポートを提供しています。

同社は、一般的な顧客の質問に自動回答を提供するWebチャットボットを開発しています。

Webチャットボットソリューションを作成した結果、会社はどのビジネス上のメリットを期待する必要がありますか？

- A. カスタマーサービスエージェントの作業負荷の軽減
- B. 製品の信頼性の向上
- C. 売上の増加

正解: ([正解を表示します](#))

## 質問: 2

あなたはAIシステムを構築しています。

サービスが責任あるAIに関するマイクロソフトの透明性の原則を確実に満たすために、どのタスクを含める必要がありますか？

- A. すべてのビジュアルに、スクリーンリーダーで読み込めるテキストが関連付けられていることを確認します。
- B. 自動スケーリングを有効にして、サービスが需要に基づいてスケーリングされるようにします。
- C. 開発者がコードをデバッグするのに役立つドキュメントを提供します。
- D. トレーニングデータセットが母集団を代表していることを確認します。

正解: ([正解を表示します](#))

Reference:

<https://docs.microsoft.com/en-us/learn/modules/responsible-ai-principles/4-guiding-principles>

## 質問: 3

次のデータセットがあります。

Household Income	Postal Code	House Price Category
20,000	55555	Low
23,000	20541	Middle
80,000	87960	High

データセットを使用して、住宅の住宅価格カテゴリを予測するモデルをトレーニングすることを計画しています。

世帯収入と住宅価格のカテゴリとは何ですか？回答するには、回答領域で適切なオプションを選択します。

注：正しい選択はそれぞれ1ポイントの価値があります。

**Answer Area**

Household Income:

A feature

A label

House Price Category:

A feature

A label

正解:

**Answer Area**

Household Income:

A feature

A label

House Price Category:

A feature

A label

Explanation

## Answer Area

Household Income:

A feature

A label

House Price Category:

A feature

A label

Box 1: A feature

Box 2: A label

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio/interpret-model-results>

### 質問: 4

次の各ステートメントについて、ステートメントがtrueの場合は、[はい]を選択します。それ以外の場合は、[いいえ]を選択します。

注：正しい選択はそれぞれ1ポイントの価値があります。

## Answer Area

Statements	Yes	No
The Text Analytics service can identify in which language text is written.	<input type="radio"/>	<input type="radio"/>
The Text Analytics service can detect handwritten signatures in a document.	<input type="radio"/>	<input type="radio"/>
The Text Analytics service can identify companies and organizations mentioned in a document.	<input type="radio"/>	<input type="radio"/>

正解:

Statements	Yes	No
The Text Analytics service can identify in which language text is written.	<input type="radio"/>	<input type="radio"/>
The Text Analytics service can detect handwritten signatures in a document.	<input type="radio"/>	<input type="radio"/>
The Text Analytics service can identify companies and organizations mentioned in a document.	<input type="radio"/>	<input type="radio"/>

Explanation

## Answer Area

Statements	Yes	No
The Text Analytics service can identify in which language text is written.	<input checked="" type="radio"/>	<input type="radio"/>
The Text Analytics service can detect handwritten signatures in a document.	<input type="radio"/>	<input checked="" type="radio"/>
The Text Analytics service can identify companies and organizations mentioned in a document.	<input checked="" type="radio"/>	<input type="radio"/>

The Text Analytics API is a cloud-based service that provides advanced natural language processing over raw text, and includes four main functions: sentiment analysis, key phrase extraction, named entity recognition, and language detection.

Box 1: Yes

You can detect which language the input text is written in and report a single language code for every document submitted on the request in a wide range of languages, variants, dialects, and

some regional/cultural languages. The language code is paired with a score indicating the strength of the score.

Box 2: No

Box 3: Yes

Named Entity Recognition: Identify and categorize entities in your text as people, places, organizations, date/time, quantities, percentages, currencies, and more. Well-known entities are also recognized and linked to more information on the web.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/overview>

**質問: 5**

次の各ステートメントについて、ステートメントがtrueの場合は、[はい]を選択します。それ以外の場合は、[いいえ]を選択します。

注：正しい選択はそれぞれ1ポイントの価値があります。

Answer Area			
Statements	Yes	No	
You can use the Speech service to transcribe a call to text.	<input type="radio"/>	<input type="radio"/>	
You can use the Text Analytics service to extract key entities from a call transcript.	<input type="radio"/>	<input type="radio"/>	
You can use the Speech service to translate the audio of a call to a different language.	<input type="radio"/>	<input type="radio"/>	

 Microsoft

正解:

## Answer Area



### Statements

Yes

No

You can use the Speech service to transcribe a call to text.

You can use the Text Analytics service to extract key entities from a call transcript.

You can use the Speech service to translate the audio of a call to a different language.

## Explanation

### Answer Area



### Statements

Yes

No

You can use the Speech service to transcribe a call to text.

You can use the Text Analytics service to extract key entities from a call transcript.

You can use the Speech service to translate the audio of a call to a different language.

## Reference:

<https://docs.microsoft.com/en-gb/azure/cognitive-services/text-analytics/overview>

<https://azure.microsoft.com/en-gb/services/cognitive-services/speech-services/>

## 質問: 6

スキャンしたドキュメントからテキスト、キーと値のペア、およびテーブルデータを自動的に抽出するには、どのサービスを使用する必要がありますか？

- A. フォーム認識機能
- B. テキスト分析
- C. インク認識装置
- D. カスタムビジョン

正解: [\(正解を表示します\)](#)

## Explanation

Accelerate your business processes by automating information extraction. Form Recognizer applies advanced machine learning to accurately extract text, key/value pairs, and tables from documents. With just a few samples, Form Recognizer tailors its understanding to your documents, both on-premises and in the cloud.

Turn forms into usable data at a fraction of the time and cost, so you can focus more time acting on the information rather than compiling it.

Reference:

<https://azure.microsoft.com/en-us/services/cognitive-services/form-recognizer/>

### 質問: 7

ワークロードを処理する自然言語のタイプを適切なシナリオに一致させます。

答えるには、適切なワークロードタイプを左側の列から右側のシナリオにドラッグします。各ワークロードタイプは、1回使用することも、複数回使用することも、まったく使用しないこともできます。

注：正しい選択はそれぞれ1ポイントの価値があります。

The screenshot shows the Microsoft Form Recognizer interface. On the left, under 'Workloads Types', there are seven options: Entity recognition, Key phrase extraction, Language modeling, Sentiment analysis, Natural language processing, Translation, and Speech recognition and speech synthesis. On the right, under 'Answer Area', there are three 'Workload Type' slots. The first slot is empty. The second slot contains 'Key phrase extraction' with the description 'Extracts persons, locations, and organizations from the text'. The third slot contains 'Sentiment analysis' with the description 'Evaluates text along a positive-negative scale'. The 'Translation' option is not present in the answer area. The Microsoft logo is visible at the bottom right.

正解:

The screenshot shows the Microsoft Form Recognizer interface with the correct solution. In the 'Workloads Types' column, 'Key phrase extraction', 'Sentiment analysis', and 'Translation' are highlighted with dashed green boxes. In the 'Answer Area', these three workload types are correctly placed in the three slots. 'Key phrase extraction' is in the first slot with the description 'Extracts persons, locations, and organizations from the text'. 'Sentiment analysis' is in the second slot with the description 'Evaluates text along a positive-negative scale'. 'Translation' is in the third slot with the description 'Returns text translated to the specified target language'. The Microsoft logo is visible at the bottom right.

Explanation

## Answer Area

Key phrase extraction	Extracts persons, locations, and organizations from the text
Sentiment analysis	Evaluates text along a positive-negative scale
Translation 	Returns text translated to the specified target language

### Box 1: Key phrase extraction

Broad entity extraction: Identify important concepts in text, including key phrases and named entities such as people, places, and organizations.

### Box 2: Sentiment analysis

Sentiment Analysis is the process of determining whether a piece of writing is positive, negative or neutral.

### Box 3: Translation

Using Microsoft's Translator text API

This versatile API from Microsoft can be used for the following:

Translate text from one language to another.

Transliterate text from one script to another.

Detecting language of the input text.

Find alternate translations to specific text.

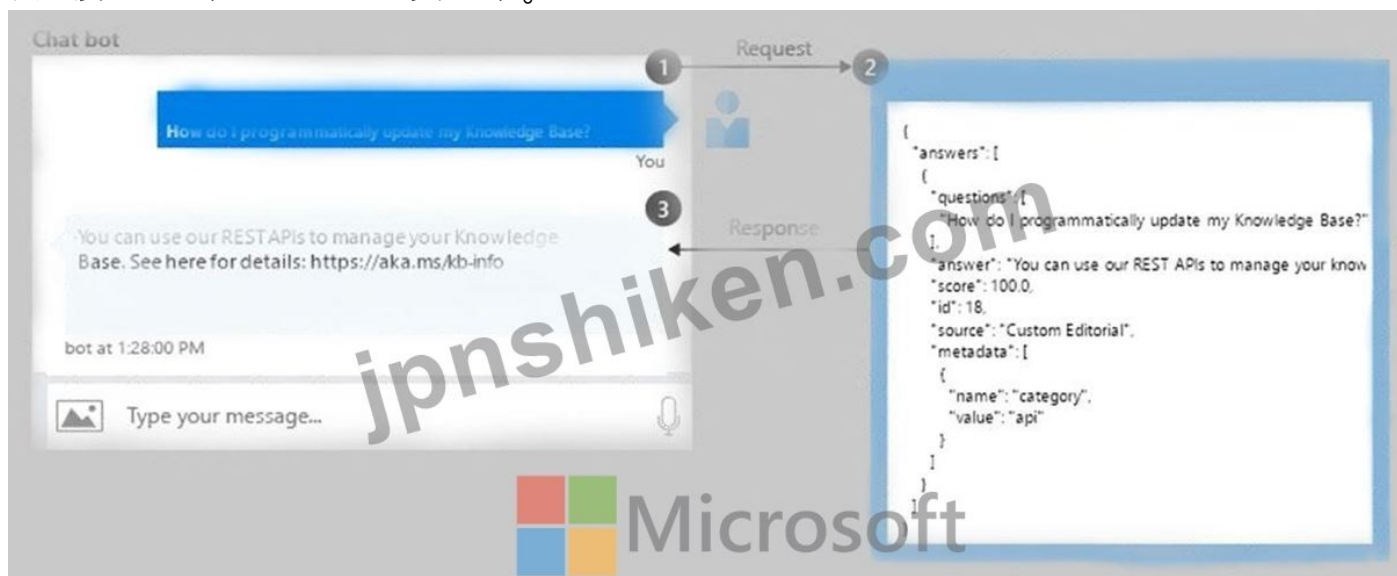
Determine the sentence length.

Reference:

<https://azure.microsoft.com/en-us/services/cognitive-services/text-analytics>

### 質問: 8

次の展示に示すプロセスがあります。



The screenshot shows a chat bot interface with a message from the user: "How do I programmatically update my Knowledge Base?". The bot responds with: "You can use our REST APIs to manage your Knowledge Base. See here for details: <https://aka.ms/kb-info>".

The response is shown as a JSON object:

```
{
  "answers": [
    {
      "questions": [
        "How do I programmatically update my Knowledge Base?"
      ],
      "answer": "You can use our REST APIs to manage your know",
      "score": 100.0,
      "id": 18,
      "source": "Custom Editorial",
      "metadata": [
        {
          "name": "category",
          "value": "api"
        }
      ]
    }
  ]
}
```

図に示されているタイプのAIソリューションはどれですか？

- A. コンピュータービジョンアプリケーション
- B. チャットボット
- C. 機械学習モデル
- D. 感情分析ソリューション

正解: B ([コメントを发表する](#))

質問: 9

機械学習のタイプを適切なシナリオに一致させます。

答えるには、適切な機械学習タイプを左側の列から右側のシナリオにドラッグします。

各機械学習タイプは、1回使用することも、複数回使用することも、まったく使用しないこともできます。

注：正しい選択はそれぞれ1ポイントの価値があります。

Learning Types	Answer Area
Classification	Learning Type Predict how many minutes late a flight will arrive basen on the amount of snowfall at an airport.
Clustering	Learning Type Segment customers into different groups to support a marketing department.
Regression	Learning Type Predict whether a student will complete a university course.

正解:

The interactive answering of questions entered by a user as part of an application is an example of

- anomaly detection.
- computer vision.
- conversational AI.
- forecasting.

Explanation

Box 1: Regression

In the most basic sense, regression refers to prediction of a numeric target.

Linear regression attempts to establish a linear relationship between one or more independent variables and a numeric outcome, or dependent variable.

You use this module to define a linear regression method, and then train a model using a labeled dataset. The trained model can then be used to make predictions.

Box 2: Classification

Classification is a machine learning method that uses data to determine the category, type, or class of an item or row of data.

### Box 3: Clustering

Clustering, in machine learning, is a method of grouping data points into similar clusters. It is also called segmentation.

Over the years, many clustering algorithms have been developed. Almost all clustering algorithms use the features of individual items to find similar items. For example, you might apply clustering to find similar people by demographics. You might use clustering with text analysis to group sentences with similar topics or sentiment.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/linear-regression>

#### 質問: 10

医学研究プロジェクトでは、事前定義された脳出血タイプに分類された脳スキャン画像の匿名化された大規模なデータセットを使用します。

機械学習を使用して、画像を人がレビューする前に、画像内のさまざまな脳出血タイプの早期検出をサポートする必要があります。

これは、どのタイプの機械学習の例ですか？

- A. クラスタリング
- B. 分類
- C. 回帰

正解: **B** ([コメントを發表する](#))

#### 質問: 11

分類のユースケースは何ですか？

- A. 前夜に何時間寝たかに基づいて、1杯のコーヒーを何杯飲むかを予測します。
- B. 画像の内容を分析し、類似した色の画像をグループ化する
- C. 自宅から職場までの距離に基づいて、誰かが自転車を使用して出張するかどうかを予測する
- D. 過去のレース時間に基づいて誰かがレースを実行するのにかかる時間を予測する

正解: ([正解を表示します](#))

Explanation

Classification is a machine learning method that uses data to determine the category, type, or class of an item or row of data.


Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/algorithm-module-reference/linear-regression>

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/machine-learning-initialize-m>

#### 質問: 12


文を完成させるには、回答領域で適切なオプションを選択します。

**Answer Area** 

The handling of unusual or missing values provided to an AI system is a consideration for the Microsoft  principle for responsible AI.

- inclusiveness
- privacy and security
- reliability and safety
- transparency

正解:

**Answer Area** 

While presenting at a conference, your session is transcribed into subtitles for the audience. This is an example of .


- sentiment analysis.
- speech recognition.
- speech synthesis.
- translation.

Explanation

**Answer Area**

The handling of unusual or missing values provided to an AI system is a consideration for the Microsoft  principle for responsible AI.

- inclusiveness
- privacy and security**
- reliability and safety
- transparency



Privacy and security.

As AI becomes more prevalent, protecting privacy and securing important personal and business information is becoming more critical and complex. With AI, privacy and data security issues require especially close attention because access to data is essential for AI systems to make accurate and informed predictions and decisions about people. AI systems must comply with privacy laws that require transparency about the collection, use, and storage of data and mandate that consumers have appropriate controls to choose how their data is used. At Microsoft, we are continuing to research privacy and security breakthroughs (see next unit) and invest in robust compliance processes to ensure that data collected and used by our AI systems is handled responsibly.

Reference:

<https://docs.microsoft.com/en-us/learn/modules/responsible-ai-principles/4-guiding-principles>

質問: 13

あなたの会社は、ボトルのリサイクル機を作りたいと考えています。リサイクル機は、正しい形状のボトルを自動的に識別し、他のすべてのアイテムを拒否する必要があります。

会社はどのタイプのAIワークロードを使用する必要がありますか？

- A. 異常検出
- B. 会話型AI
- C. コンピュータービジョン
- D. 自然言語処理

正解: C ([コメントを发表する](#))

Explanation

Azure's Computer Vision service gives you access to advanced algorithms that process images and return information based on the visual features you're interested in. For example, Computer Vision can determine whether an image contains adult content, find specific brands or objects, or find human faces.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/overview>

質問: 14

文を完成させるには、回答領域で適切なオプションを選択します。

**Answer Area**  Microsoft

Azure Machine Learning designer lets you create machine learning models by


adding and connecting modules on a visual canvas.

automatically performing common data preparation tasks.

automatically selecting an algorithm to build the most accurate model.

using a code-first notebook experience.

正解:

**Answer Area**  Microsoft

While presenting at a conference, your session is transcribed into subtitles for the audience. This is an example of

sentiment analysis.

speech recognition.

speech synthesis.

translation.

Explanation

ANSWER AREA

 Azure Machine Learning designer lets you create machine learning models by

- adding and connecting modules on a visual canvas.
- automatically performing common data preparation tasks.
- automatically selecting an algorithm to build the most accurate model.
- using a code-first notebook experience.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/concept-designer>

質問: 15

次の各ステートメントについて、ステートメントがtrueの場合は、[はい]を選択します。それ以外の場合は、[いいえ]を選択します。

注：正しい選択はそれぞれ1ポイントの価値があります。

Statements	Yes	No
You can communicate with a bot by using email.	<input type="radio"/>	<input type="radio"/>
You can communicate with a bot by using Microsoft Teams.	<input type="radio"/>	<input type="radio"/>
You can communicate with a bot by using a webchat interface.	<input type="radio"/>	<input type="radio"/>

正解:

Statements	Yes	No
You can communicate with a bot by using email.	<input checked="" type="radio"/>	<input type="radio"/>
You can communicate with a bot by using Microsoft Teams.	<input checked="" type="radio"/>	<input type="radio"/>
You can communicate with a bot by using a webchat interface.	<input checked="" type="radio"/>	<input type="radio"/>

Explanation

Statements	Yes	No
You can communicate with a bot by using email.	<input type="radio"/>	<input type="radio"/>
You can communicate with a bot by using Microsoft Teams.	<input type="radio"/>	<input type="radio"/>
You can communicate with a bot by using a webchat interface.	<input type="radio"/>	<input type="radio"/>

Reference:

<https://docs.microsoft.com/en-us/azure/bot-service/bot-service-manage-channels?view=azure-bot-service-4.0>

質問: 16

Azure Machine Learning Designerを使用して、推論パイプラインを公開します。

パイプラインを消費するために使用する必要がある2つのパラメーターはどれですか？それぞれの正解は、解決策の一部を示しています。

注：正しい選択はそれぞれ1ポイントの価値があります。

- A. モデル名
- B. トレーニングエンドポイント
- C. 認証キー
- D. RESTエンドポイント

正解: ([正解を表示します](#))

Explanation

A: The trained model is stored as a Dataset module in the module palette. You can find it under My Datasets.

Azure Machine Learning designer lets you visually connect datasets and modules on an interactive canvas to create machine learning models.

D: You can consume a published pipeline in the Published pipelines page. Select a published pipeline and find the REST endpoint of it.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/how-to-run-batch-predictions-designer>

<https://docs.microsoft.com/en-us/azure/machine-learning/concept-designer>

有効的なAI-900J問題集はJPNTest.com提供され、AI-900J試験に合格することに役に立ちます！JPNTest.comは今最新AI-900J試験問題集を提供します。JPNTest.com AI-900J試験問題集はもう更新されました。ここでAI-900J問題集のテストエンジンを手に入れます。最新版のアク

セス、<https://www.jpntest.com/shiken/AI-900J-mondaishu> 825問、30%ディスカウント、特別な割引コード: **JPNshiken**」

質問: 17

文を完成させるには、回答領域で適切なオプションを選択します。

Answer Area

You can use the  service to train an object detection model by using your own images

- Computer Vision
- Custom Vision
- Form Recognizer
- Video Indexer

正解:

Answer Area



Statements

Yes

No

You can use the Speech service to transcribe a call to text.

You can use the Text Analytics service to extract key entities from a call transcript.

You can use the Speech service to translate the audio of a call to a different language.

Explanation

Answer Area

You can use the  service to train an object detection model by using your own images.

- Computer Vision
- Custom Vision
- Form Recognizer
- Video Indexer

Azure Custom Vision is a cognitive service that lets you build, deploy, and improve your own image classifiers. An image classifier is an AI service that applies labels (which represent classes) to images, according to their visual characteristics. Unlike the Computer Vision service, Custom Vision allows you to specify the labels to apply.

Note: The Custom Vision service uses a machine learning algorithm to apply labels to images. You, the developer, must submit groups of images that feature and lack the characteristics in question. You label the images yourself at the time of submission. Then the algorithm trains to this data and calculates its own accuracy by testing itself on those same images. Once the algorithm is trained, you can test, retrain, and eventually use it to classify new images according to the needs of your app. You can also export the model itself for offline use.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/custom-vision-service/home>

**質問: 18**

文を完成させるには、回答領域で適切なオプションを選択します。

**Answer Area**

Returning a bounding box that indicates the location of a vehicle in an image is an example of

- image classification.
- object detection.
- optical character recognizer (OCR).
- semantic segmentation.

正解:

**Answer Area**



**Statements**

**Yes**

**No**

You can use the Speech service to transcribe a call to text.



You can use the Text Analytics service to extract key entities from a call transcript.



You can use the Speech service to translate the audio of a call to a different language.



Explanation

## Answer Area



Returning a bounding box that indicates the location of a vehicle in an image is an example of

image classification.  
object detection.  
optical character recognizer (OCR).  
semantic segmentation.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/concept-object-detection>

質問: 19

車間の距離を推定できるように、画像内の車の位置を特定する必要があります。どのタイプのコンピュータビジョンを使用する必要がありますか？

- A. 光学式文字認識 (OCR)
- B. 物体検出
- C. 画像分類
- D. 顔検出

正解: ([正解を表示します](#))

Explanation

Object detection is similar to tagging, but the API returns the bounding box coordinates (in pixels) for each object found. For example, if an image contains a dog, cat and person, the Detect operation will list those objects together with their coordinates in the image. You can use this functionality to process the relationships between the objects in an image. It also lets you determine whether there are multiple instances of the same tag in an image.

The Detect API applies tags based on the objects or living things identified in the image. There is currently no formal relationship between the tagging taxonomy and the object detection taxonomy. At a conceptual level, the Detect API only finds objects and living things, while the Tag API can also include contextual terms like

"indoor", which can't be localized with bounding boxes.

Reference:

<https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/concept-object-detection>

質問: 20

次の各ステートメントについて、ステートメントがtrueの場合は、[はい]を選択します。それ以外の場合は、[いいえ]を選択します。

注：正しい選択はそれぞれ1ポイントの価値があります。

Statements	Yes	No
Forecasting housing prices based on historical data is an example of anomaly detection.	<input type="radio"/>	<input type="radio"/>
Identifying suspicious sign-ins by looking for deviations from usual patterns is an example of anomaly detection.	<input type="radio"/>	<input type="radio"/>
Predicting whether a patient will develop diabetes based on the patient's medical history is an example of anomaly detection.	<input type="radio"/>	<input type="radio"/>

正解:

Statements	Yes	No
Azure Bot Service and Azure Cognitive Services can be integrated.	<input type="radio"/>	<input type="radio"/>
Azure Bot Service engages with customers in a conversational manner.	<input type="radio"/>	<input type="radio"/>
Azure Bot Service can import frequently asked questions (FAQ) to question and answer sets.	<input type="radio"/>	<input checked="" type="radio"/>

Explanation

Statements	Yes	No
Forecasting housing prices based on historical data is an example of anomaly detection.	<input type="radio"/>	<input checked="" type="radio"/>
Identifying suspicious sign-ins by looking for deviations from usual patterns is an example of anomaly detection.	<input checked="" type="radio"/>	<input type="radio"/>
Predicting whether a patient will develop diabetes based on the patient's medical history is an example of anomaly detection.	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: No

Box 2: Yes

Box 3: Yes

Anomaly detection encompasses many important tasks in machine learning:

Identifying transactions that are potentially fraudulent.

Learning patterns that indicate that a network intrusion has occurred.

Finding abnormal clusters of patients.

Checking values entered into a system.

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/studio-module-reference/anomaly-detection>

### 質問: 21

あなたのウェブサイトには、顧客を支援するチャットボットがあります。

顧客がチャットボットに入力した内容に基づいて、顧客が動揺していることを検出する必要があります。

どのタイプのAIワークロードを使用する必要がありますか？

- A. 異常検出
- B. セマンティックセグメンテーション
- C. 回帰
- D. 自然言語処理

正解: ([正解を表示します](#))

Explanation

Natural language processing (NLP) is used for tasks such as sentiment analysis, topic detection, language detection, key phrase extraction, and document categorization.

Sentiment Analysis is the process of determining whether a piece of writing is positive, negative or neutral.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/natural-language-processing>

### 質問: 22

AIワークロードのタイプを適切なシナリオに一致させます。

答えるには、適切なワークロードタイプを左側の列から右側のシナリオにドラッグします。各ワークロードタイプは、1回使用することも、複数回使用することも、まったく使用しないこともできます。

注：正しい選択はそれぞれ1ポイントの価値があります。

### Workloads Types

- Anomaly detection
- Computer vision
- Conversational AI
- Knowledge mining
- Natural language processing

### Answer Area



- Workload Type: An automated chat to answer questions about refunds and exchange
- Workload Type: Determining whether a photo contains a person
- Workload Type: Determining whether a review is positive or negative

正解:

Workloads Types	Answer Area
Conversational AI	An automated chat to answer questions about refunds and exchange
Computer vision	Determining whether a photo contains a person
Natural language processing	Determining whether a review is positive or negative

Explanation

Answer Area
Conversational AI: An automated chat to answer questions about refunds and exchange
Computer vision: Determining whether a photo contains a person
Natural language processing: Determining whether a review is positive or negative

Box 3: Natural language processing

Natural language processing (NLP) is used for tasks such as sentiment analysis, topic detection, language detection, key phrase extraction, and document categorization.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/natural-language-processing>

質問: 23

機械学習の進歩のために、トレーニングと評価のためにデータをどのように分割する必要がありますか？

- A. トレーニング用の機能と評価用のラベルを使用します。
- B. データをトレーニング用の行と評価用の行にランダムに分割します。
- C. トレーニングにはラベルを使用し、評価には機能を使用します。
- D. データをトレーニング用の列と評価用の列にランダムに分割します。

正解: ([正解を表示します](#))

Explanation

In Azure Machine Learning, the percentage split is the available technique to split the data. In this technique, random data of a given percentage will be split to train and test data.

Reference:

<https://www.sqlshack.com/prediction-in-azure-machine-learning/>

質問: 24

あなたは、聴覚、視覚、その他の障害を持つ人々を含むすべての人に力を与えるAIシステムを設計しています。

これは、責任あるAIに関するマイクロソフトの指針となる原則の例です。

- A. 公平性
- B. 包括性
- C. 信頼性と安全性
- D. 説明責任

正解: ([正解を表示します](#))

Explanation

Inclusiveness: At Microsoft, we firmly believe everyone should benefit from intelligent technology, meaning it must incorporate and address a broad range of human needs and experiences. For the 1 billion people with disabilities around the world, AI technologies can be a game-changer.

Reference:

<https://docs.microsoft.com/en-us/learn/modules/responsible-ai-principles/4-guiding-principles>

質問: 25

Text Analytics API機能をテクニカルサポートチケットシステムに適用することを計画しています。

Text Analytics API機能を適切な自然言語処理シナリオに一致させます。

答えるには、適切な機能を左側の列から右側のシナリオにドラッグします。各機能は、1回使用することも、複数回使用することも、まったく使用しないこともできます。

注：正しい選択はそれぞれ1ポイントの価値があります。

### API Features

Entity recognition

Key phrase extraction

Language detection

Sentiment analysis

### Answer Area

API Feature

Understand how upset a customer is based on the text contained in the support ticket.

API Feature


Summarize important information from the support ticket.

API Feature

Extract key dates from the support ticket.



正解:

Statements	 Yes	No
You can communicate with a bot by using email.	<input type="checkbox"/>	<input type="checkbox"/>
You can communicate with a bot by using Microsoft Teams.	<input type="checkbox"/>	<input type="checkbox"/>
You can communicate with a bot by using a webchat interface.	<input type="checkbox"/>	<input type="checkbox"/>

Explanation

**Answer Area**

Sentiment analysis Understand how upset a customer is based on the text contained in the support ticket.

Key phrase extraction Summarize important information from the support ticket.

Entity recognition Extract key dates from the support ticket.

Box1: Sentiment analysis

Sentiment Analysis is the process of determining whether a piece of writing is positive, negative or neutral.

Box 2: Broad entity extraction

Broad entity extraction: Identify important concepts in text, including key phrases and named entities such as people, places, and organizations.

Box 3: Entity Recognition

Named Entity Recognition: Identify and categorize entities in your text as people, places, organizations, date/time, quantities, percentages, currencies, and more. Well-known entities are also recognized and linked to more information on the web.

Reference:

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/natural-language-processing>

<https://azure.microsoft.com/en-us/services/cognitive-services/text-analytics>

**質問: 26**

あなたの会社は、スマートホームデバイスでの音声認識テクノロジーの使用を検討しています。同社は、特定のユーザーグループを意図せずに除外する可能性のある障壁を特定したいと考えています。

これは、責任あるAIのためのマイクロソフトの指導原則の例ですか？

- A. 説明責任
- B. 公平性
- C. 包括性
- D. プライバシーとセキュリティ

正解: ([正解を表示します](#))

Reference:

<https://docs.microsoft.com/en-us/learn/modules/responsible-ai-principles/4-guiding-principles>

**質問: 27**

よくある質問 (FAQ) ドキュメントからボットを作成するには、どのAIサービスを使用する必要がありますか？

- A. スピーチ
- B. 言語理解 (UIS)
- C. テキスト分析
- D. QnAメーカー

正解: ([正解を表示します](#))

**質問: 28**

文を完成させるには、回答領域で適切なオプションを選択します。

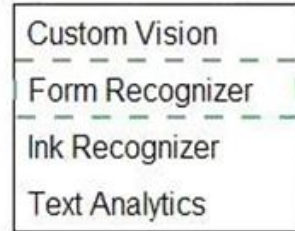


The screenshot shows a Microsoft interface with the text: "The ability to extract subtotals and totals from a receipt is a capability of the [dropdown] service." The dropdown menu is open, showing the following options: Custom Vision, Form Recognizer, Ink Recognizer, and Text Analytics. A watermark "jpnshiken.com" is visible across the image.

正解:

Answer Area

The ability to **extract** subtotals and totals from a receipt is a capability of the \_\_\_\_\_ service.



Custom Vision  
Form Recognizer  
Ink Recognizer  
Text Analytics

Explanation

Answer Area

The ability to extract subtotals **and** totals from a receipt is a capability of the \_\_\_\_\_ service.



Custom Vision  
Form Recognizer  
Ink Recognizer  
Text Analytics

Accelerate your business processes by automating information extraction. Form Recognizer applies advanced machine learning to accurately extract text, key/value pairs, and tables from documents. With just a few samples, Form Recognizer tailors its understanding to your documents, both on-premises and in the cloud.

Turn forms into usable data at a fraction of the time and cost, so you can focus more time acting on the information rather than compiling it.

Reference:

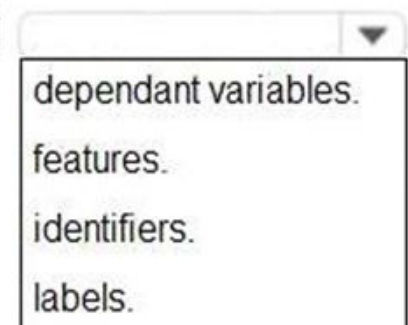
<https://azure.microsoft.com/en-us/services/cognitive-services/form-recognizer/>

質問: 29

文を完成させるには、回答領域で適切なオプションを選択します。

Answer Area

Data values that influence the prediction of a model are called \_\_\_\_\_



dependant variables.  
features.  
identifiers.  
labels.

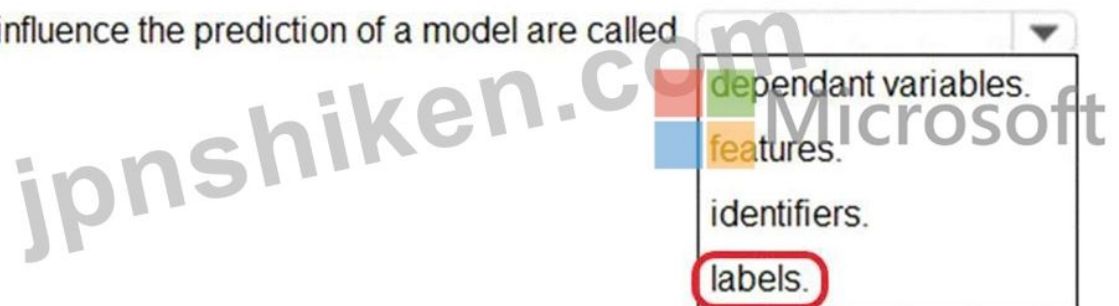
正解:



Explanation

### Answer Area

Data values that influence the prediction of a model are called



In machine learning, if you have labeled data, that means your data is marked up, or annotated, to show the target, which is the answer you want your machine learning model to predict.

In general, data labeling can refer to tasks that include data tagging, annotation, classification, moderation, transcription, or processing.

Reference:

<https://www.cloudfactory.com/data-labeling-guide>

### 質問: 30

文を完成させるには、回答領域で適切なオプションを選択します。



正解:

Statements	Microsoft	Yes	No
You can communicate with a bot by using email.		<input type="checkbox"/>	<input type="checkbox"/>
You can communicate with a bot by using Microsoft Teams.		<input type="checkbox"/>	<input type="checkbox"/>
You can communicate with a bot by using a webchat interface.		<input type="checkbox"/>	<input type="checkbox"/>

Explanation

**Answer Area**

is used to generate additional features.

- Feature engineering
- Feature selection
- Model evaluation
- Model training

Microsoft

Reference:

<https://docs.microsoft.com/en-us/azure/machine-learning/team-data-science-process/create-features>

有効的なAI-900J問題集はJPNTTest.com提供され、AI-900J試験に合格することに役に立ちます！JPNTTest.comは今最新AI-900J試験問題集を提供します。JPNTTest.com AI-900J試験問題集はもう更新されました。ここでAI-900J問題集のテストエンジンを手に入れます。最新版のアクセス、<https://www.jpntest.com/shiken/AI-900J-mondaishu> 325問、30%ディスカウント、特別な割引コード: **JPNshiken**」