



Python for Beginners

Archer Infotech , PUNE





Practice Test



★ Question 1:

Your company currently has customer service agents who are used to provide telephone and email support to customers. The company now wants to develop and use webchat bots to provide automated answers common customer queries.

Which of the following would be the business benefit of using the webchat bot solution

- ☐ It would result in increased sales
- ☐ It would result in a reduced workload for the customer service agents
- ☐ It would result in improved product reliability





★ Question 2:

For the following statement, decide on whether the statement is TRUE or FALSE

Is forecasting housing prices based on historical data an example of anomaly detection?

☐ TRUE

☐ FALSE





★ Question 3:

For the following statement, decide on whether the statement is TRUE or FALSE

Is Identifying suspicious sign-ins by looking for deviations from usual patterns an example of anomaly detection?

☐ TRUE

☐ FALSE





★ Question 4:

For the following statement, decide on whether the statement is TRUE or FALSE

Is predicting whether a patient will develop diabetes based on the patient's medical history an example of anomaly detection?

☐ TRUE

☐ FALSE



★ Question 5:

The following statement follows which Microsoft principle for responsible AI.

“The handling of unusual or missing values provided to an AI system”

- ☐ Inclusiveness
- ☐ Privacy and security
- ☐ Reliability and safety
- ☐ Transparency



★ Question 6:

Which of the following Workload type matches the below workload

“An automated chat to answer questions about refunds and exchange”

- ☐ Anomaly detection
- ☐ Computer vision
- ☐ Conversational AI
- ☐ Natural Language processing



★ Question 7:

Which of the following Workload type matches the below workload

“Determining whether a photo contains a person”

☐ Anomaly detection

☐ Computer vision

☐ Conversational AI

☐ Natural Language processing



★ Question 8:

Which of the following Workload type matches the below workload

“Determining whether a review is positive or negative”

☐ Anomaly detection

☐ Computer vision

☐ Conversational AI

☐ Natural Language processing



★ Question 9:

When building an AI system which of the following task needs to be included to ensure that Microsoft transparency principle for responsible AI is followed?

☒ **Ensure that all visuals have an associated text that can be read by a screen reader.**

☐ **Enable autoscaling to ensure that a service scales based on demand.**

☐ **Provide documentation to help developers debug code.**

☐ **Ensure that a training dataset is representative of the population.**



★ Question 10:

Which of the following Workload type matches the below workload

“ Identity handwritten letters”

- ☐ Anomaly detection
- ☐ Computer vision
- ☐ Machine Learning (Regression)
- ☐ Natural Language processing



★ Question 11:

Which of the following Workload type matches the below workload

“ Predict the sentiment of a social media post”

☐ Anomaly detection

☐ Computer vision

☐ Machine Learning (Regression)

☐ Natural Language processing



★ Question 12:

Which of the following Workload type matches the below workload

“Identify a fraudulent credit card payment”

☐ Anomaly detection

☐ Computer vision

☐ Machine Learning (Regression)

☐ Natural Language processing



★ Question 10:

Which of the following Workload type matches the below workload

“ Identity handwritten letters”

- ☐ Anomaly detection
- ☐ Computer vision
- ☐ Machine Learning (Regression)
- ☐ Natural Language processing



★ Question 13:

Which of the following Workload type matches the below workload

“Predict next month’s toy sales”

☐ Anomaly detection

☐ Computer vision

☐ Machine Learning (Regression)

☐ Natural Language processing



★ Question 14:

Your company is exploring the use of voice recognition technologies in its smart home devices. The company wants to identify any barriers that might unintentionally leave out specific user groups. Which of the following is being followed when it comes to the guiding principle for responsible AI?

☐ **accountability**

☐ **fairness**

☐ **inclusiveness**

☐ **privacy and security**



★ Question 15:

Which of the following are three Microsoft guiding principles for responsible AI?

☐ **knowledgeability**

☐ **decisiveness**

☐ **inclusiveness**

☐ **fairness**

☐ **opinionatedness**

☐ **reliability and safety**





★ Question 16:

You have to build a machine learning model by using the automated machine learning user interface (UI). You need to ensure that the model meets the Microsoft transparency principle for responsible AI. Which of the following would you implement for this requirement?

- ☐ Set Validation type to Auto.
- ☐ Enable Explain best model.
- ☐ Set Primary metric to accuracy.
- ☐ Set Max concurrent iterations to 0.



★ Question 17:

Which of the following is a metric that can be used to evaluate a classification model?

- ☐ true positive rate
- ☐ mean absolute error (MAE)
- ☐ coefficient of determination (R2)
- ☐ root mean squared error (RMSE)





★ Question 18:

Which of the following are two components that you can drag on a canvas in Azure Machine Learning designer?

☒ dataset

☐ compute

☐ pipeline

☒ module



★ Question 19: v

You need to map the right Learning Types to the appropriate scenarios.

Which of the following would you map to the below scenario?

“Predict how many minutes late a flight will arrive based on the amount of snowfall at an airport”

☐ Classification

☐ Clustering

☐ Regression



★ Question 19:

You need to map the right Learning Types to the appropriate scenarios.

Which of the following would you map to the below scenario?

“Predict how many minutes late a flight will arrive based on the amount of snowfall at an airport”

☐ Classification

☐ Clustering

☐ Regression



★ Question 20:

You need to map the right Learning Types to the appropriate scenarios.

Which of the following would you map to the below scenario?

“Segment customers into different groups to support a marketing department”

☐ Classification

☐ Clustering

☐ Regression



★ Question 21:

You need to map the right Learning Types to the appropriate scenarios.

Which of the following would you map to the below scenario?

“Predict whether a student will complete a university course”

☐ Classification

☐ Clustering

☐ Regression



★ Question 22:

You need to map the right Learning tasks to the appropriate scenarios.

Which of the following would you map to the below scenario?

“Examining the values of a confusion matrix”

☐ Feature Engineering

☐ Feature selection

☐ Model deployment

☐ Model evaluation

☐ Model training



★ Question 23:

You need to map the right Learning tasks to the appropriate scenarios.

Which of the following would you map to the below scenario?

“Splitting the date into month, day and year fields”

☐ Feature Engineering

☐ Feature selection

☐ Model deployment

☐ Model evaluation

☐ Model training



★ Question 24:

You need to map the right Learning tasks to the appropriate scenarios.

Which of the following would you map to the below scenario?

“Picking temperature and pressure to train a weather model”

☐ Feature Engineering

☐ Feature selection

☐ Model deployment

☐ Model evaluation

☐ Model training



★ Question 25:

You need to predict the sea level in meters for the next 10 years. Which type of machine learning should you use?

☐ **classification**

☐ **regression**

☐ **clustering**





★ Question 26:

For the following statement, decide on whether the statement is TRUE or FALSE

Automated machine learning is the process of automating time-consuming, iterative tasks of machine learning model development

☐ TRUE

☐ FALSE





★ Question 27:

For the following statement, decide on whether the statement is TRUE or FALSE

Automated machine learning can automatically infer the training data from the use case provided

☐ TRUE

☐ FALSE





★ Question 28:

For the following statement, decide on whether the statement is TRUE or FALSE

Automated machine learning works by running multiple training iterations that are scored and ranked by metrics that you specify

☐ TRUE

☐ FALSE





★ Question 29:

For the following statement, decide on whether the statement is TRUE or FALSE

Automated machine learning enables you to specify a dataset and will automatically understand which label to predict

☐ TRUE

☒ FALSE



★ Question 30:

Which of the following is the machine learning type that should be used by a banking system that will predict whether a loan will be repaid?

☐ Classification

☐ Regression

☐ Clustering





★ Question 31:

For the following statement, decide on whether the statement is TRUE or FALSE

Labelling is the process of tagging training data with known values

☐ TRUE

☐ FALSE



★ Question 32:

For the following statement, decide on whether the statement is TRUE or FALSE

You should evaluate a model by using the same data used to train the model

☐ TRUE

☐ FALSE





★ Question 33:

For the following statement, decide on whether the statement is TRUE or FALSE

Accuracy is always the primary metrics that is used to measure a model's performance

☐ TRUE

☐ FALSE





★ Question 34:

You use Azure Machine Learning designer to publish an inference pipeline. Which two parameters should you use to consume the pipeline?

☐ the model name

☐ the training endpoint

☐ the authentication key

☐ the REST endpoint





★ Question 35:

You want to deploy a real-time inference pipeline as a service for others to consume. Which of the following must you deploy the model to for this requirement?

- ☐ A local web service
- ☐ Azure Container Instances
- ☐ Azure Kubernetes Services
- ☐ Azure Machine Learning compute



★ Question 10:

Which of the following Workload type matches the below workload

“ Identity handwritten letters”

- ☐ Anomaly detection
- ☐ Computer vision
- ☐ Machine Learning (Regression)
- ☐ Natural Language processing



★ Question 36:

Which of the following is the machine learning type that should be used to predict the number of overtime hours a delivery person would work based on the number of orders received?

☐ Classification

☐ Regression

☐ Clustering



★ Question 37:

You need to map the right type of natural language processing workload to the right scenario

Which of the following would you map to the following requirement?

“Be able to Extract persons, locations and organizations from the text”

Which of the following would you use for this requirement?

- ☐ Entity recognition
- ☐ Key phrase extraction
- ☐ Language modeling
- ☐ Sentiment analysis
- ☐ Translation



★ Question 38:

You need to map the right type of natural language processing workload to the right scenario

Which of the following would you map to the following requirement?

“Be able to evaluate text along with a positive-negative scale”

Which of the following would you use for this requirement?

☐ Entity recognition

☐ Key phrase extraction

☐ Language modeling

☐ Sentiment analysis

☐ Translation



★ Question 39:

You need to map the right type of natural language processing workload to the right scenario

Which of the following would you map to the following requirement?

“Be able to return text translated to the specified target language”

Which of the following would you use for this requirement?

☐ Entity recognition

☐ Key phrase extraction

☐ Language modeling

☐ Sentiment analysis

☐ Translation



★ Question 40:

You need to map the Text Analytics API feature to the following scenario

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

Which of the following API feature can be used for this requirement?

- ☐ Entity recognition
- ☐ Key phrase detection
- ☐ Language detection
- ☐ Sentiment analysis



★ Question 40:

You need to map the Text Analytics API feature to the following scenario

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

Which of the following API feature can be used for this requirement?

- ☐ Entity recognition
- ☐ Key phrase detection
- ☐ Language detection
- ☐ Sentiment analysis



★ Question 41:

You need to map the Text Analytics API feature to the following scenario

“Summarize important information from the support ticket”

Which of the following API feature can be used for this requirement?

☐ Entity recognition

☐ Key phrase detection

☐ Language detection

☐ Sentiment analysis



★ Question 42:

You need to map the Text Analytics API feature to the following scenario

“Extract key dates from the support ticket”

Which of the following API feature can be used for this requirement?

- ☐ Entity recognition
- ☐ Key phrase detection
- ☐ Language detection
- ☐ Sentiment analysis



★ Question 43:

In which of the following scenarios would you use speech recognition. Choose 2 answers from the options given below

- ☐ An in-car system that reads text messages aloud
- ☐ Providing closed captions for recorded or live videos
- ☐ Creating an automated public address system for a train station
- ☐ Creating a transcript of a telephone call or meeting





★ Question 44:

You are presenting at a conference. Your session is being transcribed into subtitles. This is an example of which of the following

☐ Sentiment analysis

☐ Speech Recognition

☐ Speech Synthesis

☐ Translation



★ Question 45:

You need to develop an application that will read instructions aloud to support users who have reduced vision. Which of the following service would you use for this requirement?

☐ Text Analytics

☐ Translator Text

☐ Speech

☐ Language Understanding (LUIS)





★ Question 46:

For the following statement, decide on whether the statement is TRUE or FALSE

The Azure Bot service can import frequently asked questions to a question-and-answer set?

☐ TRUE

☐ FALSE



★ Question 47:

You have to provide content to a business chatbot that would be used to help answer simple user queries. Which of the following are three ways to create question and answer text by using the QnA Maker?

- ☐ **Generate the questions and answers from an existing webpage.**
- ☐ **Use automated machine learning to train a model based on a file that contains the questions**
- ☐ **Manually enter the questions and answers.**
- ☐ **Connect the bot to the Cortana channel and ask questions by using Cortana.**
- ☐ **Import chit-chat content from a predefined data source.**





★ Question 48:

You have to create a conversational support system based on a frequently asked question PDF file. Which of the following can you use for this requirement?

- ☐ QnA Maker
- ☐ Text Analytics
- ☐ Computer Vision
- ☐ Language Understanding (LUIS)





★ Question 49:

You need to reduce the load on telephone operators by implementing a chatbot to answer simple questions with predefined answers. Which of the following is an AI service that can be used for this requirement?

☐ Text Analytics

☐ QnA Maker

☐ Azure Bot Service

☐ Translator Text



★ Question 50:

Which of the following are two examples of a conversational AI workload?

- ☐ A smart device in the home that responds to questions such as “What will the weather be like today?”
- ☐ A website that uses a knowledge base to interactively respond to users' questions
- ☐ Assembly line machinery that autonomously inserts headlamps into cars
- ☐ Monitoring the temperature of machinery to turn on a fan when the temperature reaches a specific Threshold



★ Question 51:

Select True/False

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"/>

- ☐ 1. False
2. True
3. False

- ☐ 1. False
2. True
3. True

- ☐ 1. True
2. True
3. True



★ Question 52:

You are developing a model to predict events by using classification.

You have a confusion matrix for the model scored on test data as shown in the following exhibit.

		Actual	
		1	0
Predicted	1	11	5
	0	1033	13951

There are ----- false negatives

☐ 11

☐ 5

☐ 1033

☐ 13951





★ Question 53:

Complete the sentence

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

Custom Vision

Form Recognizer

Ink Recognizer

Text Analytics





★ Question 54:

Complete the sentence

Answer Area

From Azure Machine Learning designer, to deploy a real-time inference pipeline as a service for others to consume, you must deploy the model to

- ☐ a local web service
- ☐ Azure Container Instances
- ☐ Azure Kubernetes Service
- ☐ Azure Machine Learning compute



★ Question 55:

Select the correct answer

Principles

Accountability

Fairness

Inclusiveness

Privacy and security

Reliability and safety

Answer Area

Principle

Ensure that AI systems operate as they were originally designed, respond to unanticipated conditions, and resist harmful manipulation.

Principle

Implementing processes to ensure that decisions made by AI systems can be overridden by humans.

Principle

Provide consumers with information and controls over the collection, use, and storage of their data.



- **Ensure that AI systems operate as they were originally designed, respond to unanticipated conditions, and resist harmful manipulations - Reliability and safety**
Implementing processes to ensure that decisions made by AI systems can be overridden by humans - Accountability
Provide consumers with information and controls over the collection, use and storage of their data - Privacy and security

- **Ensure that AI systems operate as they were originally designed, respond to unanticipated conditions, and resist harmful manipulations - Reliability and safety**
Implementing processes to ensure that decisions made by AI systems can be overridden by humans - Fairness
Provide consumers with information and controls over the collection, use and storage of their data - Privacy and security

- **Ensure that AI systems operate as they were originally designed, respond to unanticipated conditions, and resist harmful manipulations - Privacy and security**
Implementing processes to ensure that decisions made by AI systems can be overridden by humans - Inclusiveness



★ Question 56:

Determining whether a review is positive or negative is an example of

- ☐ Anomaly detection
- ☐ Computer visions
- ☐ Conversational AI
- ☐ Natural Language Processing



★ Question 57:

The ability to extract subtotals and totals from a receipt is a capability of the _____

☐ Custom Vision

☐ Form Recognizer

☐ Ink Recognizer

☐ Text Analytics



★ Question 58:

Determining if a photo contains a person is an example of :

- ☐ Anomaly detection
- ☐ Computer vision
- ☐ Conversational AI
- ☐ Natural Language Processing





★ Question 59:

Which service should you use to extract text, key/value pairs, and table data automatically from scanned documents?

☐ Form Recognizer

☐ Text Analytics

☐ Ink Recognizer

☐ Custom Vision



★ Question 60:

A medical research project uses a large anonymized dataset of brain scan images that are categorized into predefined brain haemorrhage types.

You need to use Machine Learning to support early detection of the different brain haemorrhage types.

This is an example of which type of Machine Learning?

☐ Regression

☐ Classification

☐ Clustering





★ Question 61:

When training a model why should you randomly split the rows into separate subsets?

- ☐ to train the model twice to achieve better accuracy
- ☐ to test the model by using data that was not used to train the model
- ☐ to train multiple models simultaneously to attain better performance





★ Question 62:

You are evaluating whether to use a basic workspace or enterprise workspace in Azure Machine Learning. Which are the two tasks that require an enterprise workspace?

- ☐ Use a graphical interface interface (GUI) to define and run machine learning experiments from Azure Machine Learning designer
- ☐ Create a compute instance to use as a workstation
- ☐ Create a dataset from a comma-separated file
- ☐ Use a graphical user interface to run automated machine learning experiments



★ Question 63:

Which scenario is an example of webchat bot?

- ☐ Accepts questions through email and then route the email messages to the correct person based on the content of the message
- ☐ Determine whether reviews entered on a website for a concert are positive or negative
- ☐ Translate into English questions entered by customers at a kiosk so that the appropriate person can call the customer
- ☐ From a website interface answer common questions about the scheduled events and ticket purchases for a music festival



★ Question 64:

Predicting how many hours of overtime a delivery person will work based on the number of orders is an example of

☐ **Classification**

☐ **Regression**

☐ **Clustering**





★ Question 65:

_____ is used to generate additional features.

☐ **feature engineering**

☐ **feature selection**

☐ **model evaluation**

☐ **model training**





★ Question 66:

Azure Machine Learning designer lets you create machine learning models by _____

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





★ Question 67:

You plan to deploy an Azure Machine Learning model as a service that will be used by the client applications.

Which three processes should you perform?

☐ data preparation

☐ model training

☐ model retraining

☐ model evaluation

☐ data encryption





★ Question 68:

You are building an AI system.

Which task should you include to ensure that the service meets the Microsoft transparency principle?

- ☐ **Ensure that a training dataset is representative of the population**
- ☐ **Enable autoscaling to ensure that a service scales based on demand**
- ☐ **Ensure that all visuals have an associated text that can be read by a screen reader**
- ☐ **Provide documentation to help developers debug code**



★ Question 69:

For a machine learning progress, how should you split data for training and evaluation?

- ☐ Use features for training and labels for evaluation
- ☐ Randomly split the data into rows for training and rows for evaluation.
- ☐ Use labels for training and features for evaluation.
- ☐ Randomly split the data into columns for training and columns for evaluation.





★ Question 70:

In which two scenarios can you use speech recognition?

- ☐ providing closed captions for recorded or live videos
- ☐ an in car system that reads text messages aloud
- ☐ creating an automated public address system for a train station
- ☐ creating a transcript of a telephone call or meeting





★ Question 72:

You are developing a conversational AI solution that will communicate with users through multiple channel including email, Microsoft Teams and webchat.

Which service should you use?

☐ **Azure Bot service**

☐ **Translator Text**

☐ **Form recognizer**

☐ **Text Analytics**





THANK YOU !!!

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