



IBM C1000-144

IBM Machine Learning Data Scientist Certification Questions & Answers

Exam Summary – Syllabus – Questions

C1000-144

[IBM Certified Data Scientist - Machine Learning Specialist v1](#)

61 Questions Exam – 74% Cut Score – Duration of 90 minutes

Table of Contents:

Know Your C1000-144 Certification Well:	2
IBM C1000-144 Machine Learning Data Scientist Certification Details:	2
C1000-144 Syllabus:	3
IBM C1000-144 Sample Questions:	4
Study Guide to Crack IBM Machine Learning Data Scientist C1000-144 Exam:	7

Know Your C1000-144 Certification Well:

The C1000-144 is best suitable for candidates who want to gain knowledge in the IBM Data and AI - Data and AI. Before you start your C1000-144 preparation you may struggle to get all the crucial Machine Learning Data Scientist materials like C1000-144 syllabus, sample questions, study guide.

But don't worry the C1000-144 PDF is here to help you prepare in a stress free manner.

The PDF is a combination of all your queries like-

- What is in the C1000-144 syllabus?
- How many questions are there in the C1000-144 exam?
- Which Practice test would help me to pass the C1000-144 exam at the first attempt?

Passing the C1000-144 exam makes you IBM Certified Data Scientist - Machine Learning Specialist v1. Having the Machine Learning Data Scientist certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

IBM C1000-144 Machine Learning Data Scientist Certification Details:

Exam Name	IBM Certified Data Scientist - Machine Learning Specialist v1
Exam Code	C1000-144
Exam Price	\$200 (USD)
Duration	90 mins
Number of Questions	61
Passing Score	74%
Books / Training	IBM Machine Learning Specialist
Schedule Exam	Pearson VUE
Sample Questions	IBM Machine Learning Data Scientist Sample Questions
Practice Exam	IBM C1000-144 Certification Practice Exam

C1000-144 Syllabus:

Topic	Details	Weights
Evaluate business problem including ethical implications	<ul style="list-style-type: none"> - Understand business requirements - Understand what data is available - Understand ethical challenges in the business problem - Perform AI design thinking - Assess progress on the AI Ladder 	21%
Exploratory Data Analysis including data preparation	<ul style="list-style-type: none"> - Identify the methods used to clean, label, and anonymize data - Visualize data - Balance and partition data 	18%
Implement the proper model	<ul style="list-style-type: none"> - Implement Supervised Learning: Regression - Implement Supervised Learning: Classification - Implement Unsupervised Learning: Clustering - Implement Unsupervised Learning: Dimensional Reduction 	26%
Refine and deploy the model	<ul style="list-style-type: none"> - Identify operations and transformations taken to select and engineer features - Select the proper tools - Configure the appropriate environment specifications for training the model - Train the model and optimize hyperparameters - Implement the ability for the model to explain itself 	18%
Monitor models in production	<ul style="list-style-type: none"> - Assess the model - Monitor the model in production - Determine if there is unfair bias in the model 	17%

IBM C1000-144 Sample Questions:

Question: 1

K-nearest neighbors and K-means clustering with Euclidean distance suffer from the curse of dimensionality. Is the above statement true and why?

- a) This is true. Euclidean distance, in general, is not a good metric in a high-dimensional space.
- b) This is false. K-nearest neighbors can effectively work with a highdimension space if K is small.
- c) This is true. As K increases, the number of samples required grows linearly with respect to the dimension and K.
- d) This is false. K-means clustering can effectively work with a highdimension space if given a large number of samples.

Answer: a

Question: 2

Which of the following are signs that AI is being successfully infused into the organization?

(Choose Three)

- a) AI technologies are integrated into key business processes.
- b) AI usage is restricted to a small number of specialists.
- c) Employees across the organization are trained in AI capabilities.
- d) There is a clear governance framework for AI ethics and use.
- e) AI projects are often initiated but rarely completed.

Answer: a, c, d

Question: 3

The Bayesian optimization algorithm for hyperparameter tuning has which trait?

- a) It can be used for both regression and clustering but cannot be used for classification.
- b) It requires that a user provide a list of all of the values that will be tested for each hyperparameter.
- c) It builds a machine learning model to predict which hyperparameter settings will be most effective.
- d) If sufficient hardware is available, it can try out many different hyperparameter settings at the same time.

Answer: c

Question: 4

What is one way that IBM AutoAI helps make it easier for data scientists to determine what key fields to use to join data tables?

- a) AutoAI automatically suggests joining on fields in different tables that have matching names.
- b) AutoAI automatically suggests joining on fields in different tables that have matching values.
- c) AutoAI automatically suggests joining on fields in different tables when those tables have the same number of rows.
- d) AutoAI automatically suggests joining on fields in different tables when those tables have the same number of fields.

Answer: a

Question: 5

What does an R² Score (coefficient of determination) measure?

- a) It computes the average squared difference between estimated values and the actual value.
- b) It computes the square root of the average squared difference between estimated values and the actual value.
- c) It represents the proportion of the variance in the independent variable that has been explained by the dependent variable.
- d) It represents the proportion of the variance in the dependent variable that has been explained by the independent variable(s).

Answer: d

Question: 6

What are two reasons a data point would be treated as an outlier?

- a) If the value is greater than mean
- b) If the value is greater than median
- c) If the value is greater than standard deviation
- d) If the value is below the upper end of the bottom quartile by more than 1.5 times the interquartile range
- e) If the value is above the lower end of the top quartile by more than 1.5 times the interquartile range

Answer: d, e

Question: 7

Given an SQL table 'Books' with fields Title, Author, and Genre, which query would return a list of unique Genre values?

- a) SELECT Genre FROM Books;
- b) SELECT SET Genre FROM Books;
- c) SELECT UNIQUE Genre FROM Books;
- d) SELECT DISTINCT Genre FROM Books;

Answer: d

Question: 8

A Logistic Regression algorithm is used to classify images into four categories. If each image has a 5x5 pixel dimension, what is the the number of weights required (excluding biases) for this model?

- a) 200
- b) 100
- c) 300
- d) 400

Answer: b

Question: 9

Converting a neural network into the newest version of TensorFlow or another deep-learning package is what type of performance drift or software decay?

- a) Data changes
- b) Concept drift
- c) Software changes
- d) Sampling bias and selection bias changes

Answer: c

Question: 10

What is the reason oversampling on the minority class should be performed after the train test is split and not before?

- a) To not risk reducing the value of the recall
- b) To not risk reducing the value of the accuracy
- c) To not increase the number of records in the testing dataset
- d) So there is not duplicate records in both the training and testing datasets

Answer: d

Study Guide to Crack IBM Machine Learning Data Scientist C1000-144 Exam:

- Getting details of the C1000-144 syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the C1000-144 exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the IBM provided training for C1000-144 exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the C1000-144 sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on C1000-144 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

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