IBM C1000-059

IBM AI Enterprise Workflow Data Science Specialist Certification Questions & Answers

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C1000-059
IBM Certified Specialist - AI Enterprise Workflow V1
62 Questions Exam – 44 / 62 Cut Score – Duration of 90 minutes

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Discover More about the C1000-059 Certification

Are you interested in passing the IBM C1000-059 exam? First discover, who benefits from the C1000-059 certification. The C1000-059 is suitable for a candidate if he wants to learn about IBM Data and AI - Data and AI. Passing the C1000-059 exam earns you the IBM Certified Specialist - AI Enterprise Workflow V1 title.

While preparing for the C1000-059 exam, many candidates struggle to get the necessary materials. But do not worry; your struggling days are over. The C1000-059 PDF contains some of the most valuable preparation tips and the details and instant access to useful **C1000-059 study materials just at one click**.

IBM C1000-059 AI Enterprise Workflow Data Science Specialist Certification Details:

Exam Name	IBM Certified Specialist - AI Enterprise Workflow V1
Exam Code	C1000-059
Exam Price	$200 (USD)
Duration	90 mins
Number of Questions	62
Passing Score	44 / 62
Books / Training	**Coursera - AI Enterprise Workflow Certification Training**
Schedule Exam	**Pearson VUE**
Sample Questions	**IBM AI Enterprise Workflow Data Science Specialist Sample Questions**
Practice Exam	**IBM C1000-059 Certification Practice Exam**

C1000-059 Syllabus:

Topic	Details
Scientific, Mathematical, and technical essentials	- Explain the difference between Descriptive, Prescriptive, Predictive, Diagnostic, and Cognitive Analytics - Describe and explain the key terms in the field of artificial intelligence (Analytics, Data Science, Machine Learning,

Topic	Details
for Data Science and AI	Deep Learning, Artificial Intelligence etc.) - Distinguish different streams of work within Data Science and AI (Data Engineering, Data Science, Data Stewardship, Data Visualization etc.) - Describe the key stages of a machine learning pipeline. - Explain the fundamental terms and concepts of design thinking - Explain the different types of fundamental Data Science - Distinguish and leverage key Open Source and IBM tools and technologies that can be used by a Data Scientist to implement AI solutions - Explain the general properties of common probability distributions. - Explain and calculate different types of matrix operations
Applications of Data Science and AI in Business	- Identify use cases where artificial intelligence solutions can address business opportunities - Translate business opportunities into a machine learning scenario - Differentiate the categories of machine learning algorithms and the scenarios where they can be used - Show knowledge of how to communicate technical results to business stakeholders - Demonstrate knowledge of scenarios for application of machine learning
Data understanding techniques in Data Science and AI	- Demonstrate knowledge of data collection practices - Explain characteristics of different data types - Show knowledge of data exploration techniques and data anomaly detection - Use data summarization and visualization techniques to find relevant insight
Data preparation techniques in Data Science and AI	- Demonstrate expertise cleaning data and addressing data anomalies - Show knowledge of feature engineering and dimensionality reduction techniques - Demonstrate mastery preparing and cleaning unstructured text data
Application of Data Science and AI techniques and models	- Explain machine learning algorithms and the theoretical basis behind them - Demonstrate practical experience building machine

Topic	Details
	learning models and using different machine learning algorithms
Evaluation of AI models	- Identify different evaluation metrics for machine learning algorithms and how to use them in the evaluation of model performance - Demonstrate successful application of model validation and selection methods - Show mastery of model results interpretation - Apply techniques for fine tuning and parameter optimization
Deployment of AI models	- Describe the key considerations when selecting a platform for AI model deployment - Demonstrate knowledge of requirements for model monitoring, management and maintenance - Identify IBM technology capabilities for building, deploying, and managing AI models
Technology Stack for Data Science and AI	- Describe the differences between traditional programming and machine learning - Demonstrate foundational knowledge of using python as a tool for building AI solutions - Show knowledge of the benefits of cloud computing for building and deploying AI models - Show knowledge of data storage alternatives - Demonstrate knowledge on open source technologies for deployment of AI solutions - Demonstrate basic understanding of natural language processing - Demonstrate basic understanding of computer vision - Demonstrate basic understanding of IBM Watson AI services

Broaden Your Knowledge with IBM C1000-059 Sample Questions:

Question: 1

Which two statements are true in the context of evaluating machine learning models?

a) Accuracy of 95% is always a good result.
b) Random guessing can be used as a baseline.
c) The F2-score puts equal weight on precision and recall.
d) F-score is the harmonic mean between precision and recall.
e) Evaluation metrics on training data are more important than on test data.

Answer: b, d

Question: 2

What are three hyperparameters that are used when building a simple decision tree model?

a) kernel
b) learning rate
c) maximum depth
d) split criterion
e) number of nearest neighbors
f) minimum number of samples in a leaf node

Answer: c, d, f

Question: 3

To reduce the overall time to complete a data ingestion job, what two actions should be taken?

a) Assemble the data pipeline into a series of immutable transformations, which can be combined after the processing.
b) Partition the data within each pipeline to take advantage of parallel processing (multiple server cores, processors, etc.).
c) Look for outliers in the data, missing values, and skewness of the data.
d) Build a dedicated pipeline for each dataset to ensure that all of them can be processed independently and concurrently.
e) Apply a chi-squared statistical test to rank the impact of each feature on the concept label and discard the less impactful features before model training.

Answer: b, d

Question: 4

A client, a tomato grower, provides a dataset of measurements of tomato plants and environmental data.

A data scientist thinks the features probably have a significant amount of redundancy. The data scientist decides to apply dimensionality reduction to the data features.

Which three techniques are examples of dimensionality reduction?

a) k-means clustering
b) batch normalization
c) combinatorial optimization
d) autoencoder neural network
e) principal component analysis (PCA)
f) t-distributed stochastic neighbor embedding (t-SNE)

Answer: d, e, f

Question: 5

What should be the first step to begin the task of collecting initial data?

a) Copy data from several sources to a central repository to review the data
b) Determine if a poll is required to collect data
c) Verify the technical skills that are required to collect data
d) Understand the business requirement to find out what would be the relevant data needed

Answer: d

Question: 6

A client requests a general artificial intelligence (AI) tool that they can plug into their data warehouse. What is the best response to this request?

a) There is no general AI tool currently that works universally.
b) Apply neural networks to your data.
c) IBM Watson is the tool you are looking for.
d) AI can create value without any human-intervention.

Answer: a

Question: 7

Which is an accurate statement regarding logistic regression?

a) Logistic regression is a non-linear classifier.
b) Logistic regression can be used for unsupervised learning.
c) Logistic regression can be used for binary classification.
d) The logistic function f(x) = 1/(1 + exp(-(wx + b))) can take values between [0, inf].

Answer: c

Question: 8

What are two common ways to handle missing values when cleaning data?

a) delete records
b) replace with '1'
c) replace with mean
d) replace with '100'
e) replace with standard deviation

Answer: a, c

Question: 9

What is used to update coefficients in logistic regression?

a) number of features
b) gradient descent
c) slope
d) kernel

Answer: b

Question: 10

The "aperture problem" in machine vision is best defined as?

a) Identifying a whole object or scene based on seeing only a small part of that object or scene
b) generating "snakes" of active contours based on boundary curves
c) pattern matching based on an undertrained model
d) over-fitting a model based on close-up images

Answer: a

Avail the Study Guide to Pass IBM C1000-059 AI Enterprise Workflow Data Science Specialist Exam:

- Find out about the C1000-059 syllabus topics. Visiting the official site offers an idea about the exam structure and other important study resources. Going through the syllabus topics help to plan the exam in an organized manner.
- Once you are done exploring the **C1000-059 syllabus**, it is time to plan for studying and covering the syllabus topics from the core. Chalk out the best plan for yourself to cover each part of the syllabus in a hassle-free manner.
- A study schedule helps you to stay calm throughout your exam preparation. It should contain your materials and thoughts like study hours, number of topics for daily studying mentioned on it. The best bet to clear the exam is to follow your schedule rigorously.
- The candidate should not miss out on the scope to learn from the C1000-059 training. Joining the IBM provided training for C1000-059 exam helps a candidate to strengthen his practical knowledge base from the certification.
- Learning about the probable questions and gaining knowledge regarding the exam structure helps a lot. Go through the **C1000-059 sample questions** and boost your knowledge
- Make yourself a pro through online practicing the syllabus topics. C1000-059 practice tests would guide you on your strengths and weaknesses regarding the syllabus topics. Through rigorous practicing, you can improve the weaker sections too. Learn well about time management during exam and become confident gradually with practice tests.

Career Benefits:

- Passing the C1000-059 exam, helps a candidate to prosper highly in his career. Having the certification on the resume adds to the candidate's benefit and helps to get the best opportunities.

Here Is the Trusted Practice Test for the C1000-059 Certification

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