Exam Prep: AWS Certified Machine Learning Engineer

Duration: 1 Day **Course Code: GK910030** **Delivery Method: Virtual Learning**

Overview:

AWS Certified Machine Learning Engineer – Associate (MLA-C01) is a one-day ILT where you learn how to assess your preparedness for the AWS Certified Machine Learning Engineer - Associate (MLA-C01) exam. The exam validates a candidate's ability to build, operationalize, and maintain machine learning (ML) solutions and pipelines by using the AWS Cloud.
This intermediate-level course prepares you for the AWS Certified Machine Learning Engineer - Associate (MLA-C01) exam by providing a comprehensive exploration of the exam topics. You'll delve into the key areas covered on the exam, understanding how they relate to developing AI and machine learning solutions on the AWS platform. Through detailed explanations and walkthroughs of exam style questions, you'll reinforce your knowledge, identify gaps in your understanding, and gain valuable strategies for tackling questions effectively. The course includes review of exam-style sample questions, to help you recognize incorrect responses and hone your test-taking abilities. By the end, you'll have a firm grasp on the concepts and practical applications tested on the AWS Certified Machine Learning Engineer - Associate (MLA-C01) exam.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

You are not required to take any specific training before taking this course. However, the following
- Prerequisite knowledge is recommended prior to taking the AWS Certified Machine Learning Engineer - Associate (MLA-C01) exam.

Objectives:

- In this course, you will learn to:
- Identify the scope and content tested by the AWS Certified Machine Learning Engineer - Associate (MLA-C01) exam.
- Practice exam-style questions and evaluate your preparation strategy.
- Examine use cases and differentiate between them.

Prerequisites:

General IT knowledge:

Learners are recommended to have the following:

- Suggested 1 year of experience in a related role such as a backend software developer, DevOps developer, data engineer, or data scientist.
- Basic understanding of common ML algorithms and their use cases
- Data engineering fundamentals, including knowledge of common data formats, ingestion, and transformation to work with ML data pipelines
- Knowledge of querying and transforming data
- Knowledge of software engineering best practices for modular, reusable code development, deployment, and debugging
- Familiarity with provisioning and monitoring cloud and on-premises ML resources
- Experience with continuous integration and continuous delivery (CI/CD) pipelines and infrastructure as code (IaC)
- Experience with code repositories for version control and CI/CD

pipelines.

Recommended AWS knowledge:

Learners are recommended to be able to do the following:

- Suggested 1 year of experience using Amazon SageMaker AI and other AWS services for ML engineering.
- Knowledge of Amazon SageMaker AI capabilities and algorithms for model building and deployment
- Knowledge of AWS data storage and processing services for preparing data for modeling
- Familiarity with deploying applications and infrastructure on AWS
- Knowledge of monitoring tools for logging and troubleshooting ML systems
- Knowledge of AWS services for the automation and orchestration of CI/CD pipelines
- Understanding of AWS security best practices for identity and access management, encryption, and data protection

Content:

Module 1: Data Preparation for Machine Learning (ML)

- 1.1 Ingest and store data.
- 1.2 Transform data and perform feature engineering.
- 1.3 Ensure data integrity and prepare data for modeling

Module 2:ML Model Development

- 2.1 Choose a modeling approach.
- 2.2 Train and refine models.
- 2.3 Analyze model performance.

Module 3: Deployment and Orchestration of ML Workflows

- 3.1 Select deployment infrastructure based on existing architecture and requirements.
- 3.2 Create and script infrastructure based on existing architecture and requirements.
- 3.3 Use automated orchestration tools to set up continuous integration and continuous delivery (CI/CD) pipelines

Module 4: ML Solution Monitoring, Maintenance, and Security

- 4.1 Monitor model interference.
- 4.2 Monitor and optimize infrastructure costs.
- 4.3 Secure AWS resources.

Further Information:

For More information, or to book your course, please call us on +1 (800) 268 7737

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