



PRACTICAL DATA SCIENCE WITH AMAZON SAGEMAKER CERTIFICATION TRAINING



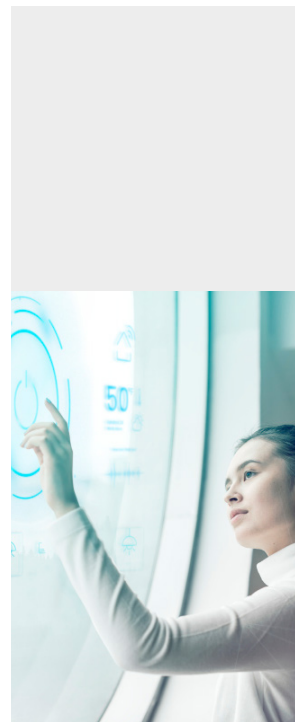
Course Level:
Intermediate

Course Duration:
1 Day

Course Overview:

In this Practical Data Science with Amazon SageMaker certification training course, candidates learn to solve a real-world use case with Machine Learning (ML) using Amazon SageMaker. From analyzing and visualizing a dataset to preparing the data, and feature engineering, candidates taking up this Practical Data Science with Amazon SageMaker course learn about the different stages of a typical data science process for Machine Learning.

By enrolling in this Practical Data Science with Amazon SageMaker online course, candidates also learn about the practical aspects of model building, tuning, and deployment with Amazon SageMaker. Trainers use real-life use cases, group exercises, and hands-on labs to deliver engaging sessions on Amazon SageMaker.



Prerequisites

We recommend that attendees of this Practical Data Science with Amazon SageMaker course have:



Familiarity with Python programming language



Basic understanding of Machine Learning

Objectives



Prepare a dataset for training



Train and evaluate a Machine Learning model



Automatically tune a Machine Learning model



Prepare a Machine Learning model for production



Think critically about Machine Learning model results

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Course Outline

Module 1: Introduction to Machine Learning

- Types of ML
- Job Roles in ML
- Steps in the ML pipeline


Module 2: Introduction to Data Prep and SageMaker

- Training and test dataset defined
- Introduction to SageMaker
- Demonstration: SageMaker console
- Demonstration: Launching a Jupyter notebook

Module 3: Problem Formulation and Dataset Preparation

- Business challenge: Customer churn
- Review customer churn dataset

Module 4: Data Analysis and Visualization

- Demonstration: Loading and visualizing your dataset
 - Exercise 1: Relating features to target variables
 - Exercise 2: Relationships between attributes
 - Demonstration: Cleaning the data
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Module 5: Training and Evaluating a Model

- Types of algorithms
- XGBoost and SageMaker
- Demonstration: Training the data
- Exercise 3: Finishing the estimator definition
- Exercise 4: Setting hyper parameters
- Exercise 5: Deploying the model
- Demonstration: hyper parameter tuning with SageMaker
- Demonstration: Evaluating model performance

Module 6: Automatically Tune a Model

- Automatic hyper parameter tuning with SageMaker
- Exercises 6-9: Tuning jobs

Module 7: Deployment/Production Readiness

- Deploying a model to an endpoint
 - A/B deployment for testing
 - Auto Scaling
 - Demonstration: Configure and test auto scaling
 - Demonstration: Check hyper parameter tuning job
 - Demonstration: AWS Auto Scaling
 - Exercise 10-11: Set up AWS Auto Scaling
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Module 8: Relative Cost of Errors

- Cost of various error types
- Demo: Binary classification cutoff

Module 9: Amazon SageMaker Architecture and Features

- Accessing Amazon SageMaker notebooks in a VPC
- Amazon SageMaker batch transforms
- Amazon SageMaker Ground Truth
- Amazon SageMaker Neo

Who should attend this course?

- Developers
 - Data Scientists
- 



About CloudThat

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With expertise in all the major Cloud platforms, CloudThat is a proud Microsoft Gold Partner, AWS Authorized Training Partner, VMware Authorized Training Reseller, Google Cloud Platform Partner and HPE Learning Partner. Through sheer dedication and commitment towards customer excellence, we have been the winner of the Microsoft Asia Superstar Campaign for India – 2021 as well as recognized as the winner of Microsoft Learning Partner of the Year 2021 Finalist award. Recently, we have been recognized as the Microsoft 2022 Partner of the Year Finalist - Learning Award.

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