

Practical Data Science with Amazon SageMaker

Cursusduur: 1 Dag Cursuscode: GK0630 Trainingsmethode: Virtual Learning

Beschrijving:

Artificial intelligence and machine learning (AI/ML) are becoming mainstream.

In this course, you will spend a day in the life of a data scientist so that you can collaborate efficiently with data scientists and build applications that integrate with ML. You will learn the basic process data scientists use to develop ML solutions on Amazon Web Services (AWS) with Amazon SageMaker. You will experience the steps to build, train, and deploy an ML model through instructor-led demonstrations and labs.

Course level: Intermediate

Duration: 1 day

Updated August 2026

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.

Doelgroep:

This course is intended for:

- Development Operations (DevOps) engineers
- Application developers

Doelstelling:

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| <ul style="list-style-type: none">■ In this course, you will learn to:■ Discuss the benefits of different types of machine learning for solving business problems■ Describe the typical processes, roles, and responsibilities on a team that builds and deploys ML systems■ Explain how data scientists use AWS tools and ML to solve a common business problem■ Summarize the steps a data scientist takes to prepare data | <ul style="list-style-type: none">■ Summarize the steps a data scientist takes to train ML models■ Summarize the steps a data scientist takes to evaluate and tune ML models■ Summarize the steps to deploy a model to an endpoint and generate predictions■ Describe the challenges for operationalizing ML models■ Match AWS tools with their ML function |
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Vereiste kennis en vaardigheden:

We recommend that attendees of this course have:

- AWS Technical Essentials
- Entry-level knowledge of Python programming
- Entry-level knowledge of statistics

Examens en certificering

None

Vervolg cursussen:

- GK910027 - Generative AI Essentials on AWS
- GK910029 - Machine Learning Engineering on AWS

Cursusinhoud:

Module 1: Introduction to Machine Learning

- Benefits of machine learning (ML)
- Types of ML approaches
- Framing the business problem
- Prediction quality
- Processes, roles, and responsibilities for ML projects

Module 2: Preparing a Dataset

- Data analysis and preparation
- Data preparation tools
- Demonstration: Review Amazon SageMaker Studio and Notebooks
- Hands-On Lab: Data Preparation with SageMaker Data Wrangler

Module 3: Training a Model

- Steps to train a model
- Choose an algorithm
- Train the model in Amazon SageMaker
- Hands-On Lab: Training a Model with Amazon SageMaker
- Amazon CodeWhisperer
- Demonstration: Amazon CodeWhisperer in SageMaker Studio Notebooks

Module 4: Evaluating and Tuning a Model

- Model evaluation
- Model tuning and hyperparameter optimization
- Hands-On Lab: Model Tuning and Hyperparameter Optimization with Amazon SageMaker

Module 5: Deploying a Model

- Model deployment
- Hands-On Lab: Deploy a Model to a Real-Time Endpoint and Generate a Prediction

Module 6: Operational Challenges

- Responsible ML
- ML team and MLOps
- Automation
- Monitoring
- Updating models (model testing and deployment)

Module 7: Other Model-Building Tools

- Different tools for different skills and business needs
- No-code ML with Amazon SageMaker Canvas
- Demonstration: Overview of Amazon SageMaker Canvas
- Amazon SageMaker Studio Lab
- Demonstration: Overview of SageMaker Studio Lab

(Optional) Hands-On Lab: Integrating a Web Application with an Amazon SageMaker Model Endpoint

Extra informatie:

Activities:

This course includes presentations, hands-on labs, and demonstrations.

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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