
Practical Data Science with Amazon SageMaker

Varighed: 1 Day Kursus Kode: GK0630 Leveringsmetode: Virtuel deltagelse

Beskrivelse:

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.

Målgruppe:

This course is intended for:

- Development Operations (DevOps) engineers
 - Application developers
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Agenda:

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| ■ In this course, you will learn to: | ■ Summarize the steps a data scientist takes to train ML models |
| ■ Discuss the benefits of different types of machine learning for solving business problems | ■ Summarize the steps a data scientist takes to evaluate and tune ML models |
| ■ Describe the typical processes, roles, and responsibilities on a team that builds and deploys ML systems | ■ Summarize the steps to deploy a model to an endpoint and generate predictions |
| ■ Explain how data scientists use AWS tools and ML to solve a common business problem | ■ Describe the challenges for operationalizing ML models |
| ■ Summarize the steps a data scientist takes to prepare data | ■ Match AWS tools with their ML function |
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Forudsætninger:

We recommend that attendees of this course have:

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

Test og certificering

None

Yderligere Kurser:

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

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

Additional Information:

Activities:

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

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

training@globalknowledge.dk

www.globalknowledge.com/da-dk/

Global Knowledge, Stamholmen 110, 2650 Hvidovre