

Data scientists and developers can learn how to integrate machine learning (ML) and artificial intelligence (AI) into applications. You'll also learn the tools and techniques for data platform and data science to build ML applications. This guide can also help prepare you for the AWS Certified Machine Learning – Specialty certification exam. If you're specifically interested in digital courses and labs to help you develop these skills, explore the Machine Learning Learning Plan at explore.skillbuilder.aws. To provide suggestions on Ramp-Up Guides, please contact rampupguides@amazon.com.

| Learning Resource | Duration | Туре |
|--|------------|---------------------------|
| AWS Ramp-Up Guide: Cloud Practitioner | ' | Ramp-Up Guide |
| Step 1: Learn AWS Machine Learning (ML) fundamentals | | |
| Learning Resource | Duration | |
| Demystifying AI/ML/DL | 45 minutes | Digital Training » |
| Machine Learning Essentials for Business and Technical Decision Makers | 90 minutes | <u>Digital Training »</u> |
| Machine Learning for Business Challenges | 1 hour | Digital Training » |
| ML Building Blocks: Services and Terminology | 40 minutes | Digital Training » |
| Process Model: CRISP-DM on the AWS Stack | 50 minutes | Digital Training » |
| Machine Learning Terminology and Process | 1 hour | <u>Digital Training</u> |
| AWS Machine Learning | 30 minutes | Webpage » |
| Exploring the Machine Learning Toolset | 80 minutes | <u>Digital Training</u> » |
| The Elements of Data Science | 8 hours | <u>Digital Training</u> » |
| Step 2.1: Learn Data Platform Engineering on AWS | | |
| Learning Resource | Duration | |
| Machine Learning Security | 2 hours | <u>Digital Training</u> |
| Building Data Lakes on AWS | 1 day | Classroom Training |
| Big Data on AWS | 3 days | Classroom Training |
| Step 2.2: Learn Data Science on AWS | | |
| Learning Resource | Duration | |
| Math for Machine Learning | 8 hours | Digital Training » |
| Developing Machine Learning Applications | 2 hours | Digital Training » |



| The Machine Learning Pipeline on AWS | 4 days | Classroom Training |
|---|------------|---|
| Deep Learning on AWS | 1 day | Classroom Training » |
| Amazon SageMaker: Build an Object Detection Model Using Images Labeled with Ground Truth | 70 minutes | Digital Training » |
| Machine Learning University (MLU) Accelerated Tabular Data | 3 hours | Video » |
| Machine Learning University (MLU) Accelerated Natural Language Processing | 3 hours | Video » |
| Machine Learning University (MLU) Accelerated Computer Vision | 3 hours | Video » |
| Amazon SageMaker Technical Deep Dive Series | 2.5 hours | Video » |
| Data Science on AWS Workshop | 4+ hours | Workshop |
| Data Science Capstone: Real World Machine Learning Decisions | 50 minutes | Digital Training » |
| Practical Data Science Specialization | 3 months | Coursera Digital Training |
| Step 2.3: Learn ML Engineering on AWS | | |
| Learning Resource | Duration | |
| Practical Data Science with Amazon SageMaker | 1 day | Classroom Training » |
| DevOps Engineering on AWS | 3 days | Classroom Training |
| MLOps Engineering on AWS | 3 days | Classroom Training |
| Operationalizing the Machine Learning Pipeline | 3+ hours | <u>Workshop</u> |
| Step 2.4: Learn tp build ML Applications on AWS | | |
| Learning Resource | Duration | |
| Amazon SageMaker: Simplifying ML Application Development | 4 weeks | W District Testing |
| Institution value for the visitor American Code Court | 2 weeks | edX Digital Training |
| Improve your Java Code using Amazon CodeGuru Improve your Python Code using Amazon CodeGuru | 2 weeks | edX Digital Training |
| improve your Python Code using Amazon Codeduru | 2 weeks | edX Digital Training Udemy Digital |
| Improve your Java Code using Amazon CodeGuru | 2 weeks | Learning |
| Improve your Python Code using Amazon CodeGuru | 2 weeks | <u>Udemy Digital</u> <u>Learning</u> |
| Improve your Java Code using Amazon CodeGuru | 2 weeks | Coursera Digital Training |
| Improve your Python Code using Amazon CodeGuru | 2 weeks | Coursera Digital Training |
| Fraud Detection Using Machine Learning | 1 hour | <u>Webpage</u> |



| | | _ | |
|--|-----------|--------------------|--|
| Step 3: Prepare for and take the AWS Certified Machine Learning - Specialty certification exam | | | |
| Learning Resource | Duration | | |
| Exam Readiness: AWS Certified Machine Learning – Specialty | 3.5 hours | Digital Training » | |
| AWS Certified Machine Learning – Specialty exam guide | 1 hour | Exam Guide » | |
| AWS Certified Machine Learning – Specialty sample questions | 4 hours | Sample Questions » | |
| AWS Certified Machine Learning – Specialty exam | 3 hours | Exam » | |

| Explore additional resources | | | |
|--|---|-----------|--|
| Learning Resource | Description | | |
| Architecture Best Practices for Machine Learning | Learn how to quickly and easily build, train, and deploy machine learning models at any scale. | Explore » | |
| Learning Library | Continue to learn by exploring our extensive portfolio of free digital training and classroom training. Filter according to your preferences, or find a specific course using the "Search" box. | Explore » | |
| AWS Whitepapers & Guides | Explore technical whitepapers, technical guides, reference material, and reference architecture diagrams, all authored by AWS and the AWS community. | Explore » | |
| AWS User Group | Join and connect with AWS users all over the world to share ideas and learn. | Explore » | |
| AWS Events & Webinars | Connect with, collaborate with, and learn from AWS experts. Key events include AWS. | Explore » | |
| AWS Podcast | Listen and learn about AWS. | Explore » | |
| AWS Blog | Read about the latest launches from AWS Technical Evangelist Jeff Barr and others. | Explore » | |
| AWS Documentation | Search for AWS service guides, API references, tutorials, projects, SDKs, and toolkits. | Explore » | |
| AWS Knowledge Center | Review AWS Support's responses to AWS customers' most frequently asked questions. | Explore » | |
| AWS FAQs | Find answers to product- and technical-related frequently asked questions. | Explore » | |
| | | | |



| AWS Hands-On Tutorials | Get started with 10-minute, step-by-step tutorials to launch your first application. | Explore » |
|------------------------|--|-----------|
| AWS Solutions Library | Use vetted, technical reference implementations designed to help you solve common problems and build faster. | Explore » |
| AWS YouTube Channel | Explore a wide variety of AWS topics by watching videos created by AWS experts across the world. | Explore » |

For a training plan
customized for your
requirements,
contact your AWS Account
Manager or contact us here

We would love to hear from you.

Provide your feedback on this

AWS Ramp-Up Guide here

For those learners who have existing Qwiklabs credits or those that want to use Qwiklabs instead of a subscription, you can search for the AWS labs in the Ramp Up Guide here and access from Qwiklabs.