AWS Ramp-Up Guide: Machine Learning

For Data Scientists and Developers

AWS Training and Certification has created this and other **AWS Ramp-Up Guides** to help build your knowledge of the AWS Cloud. Each expertly curated guide features free digital training, classroom courses, videos, whitepapers, certifications, and other information you're looking for. To enroll in training and certification exams, and track your progress, visit **aws.training** and set up a free account. To provide suggestions on Ramp-Up Guides, please contact **rampupguides@amazon.com**

Learn the fundamentals of the AWS Cloud

LEARNING RESOURCE	DURATION	TYPE
What is Cloud Computing?	10 minutes	Webpage »
Overview of AWS	2 hours	Whitepaper »
AWS Cloud Practitioner Essentials	6+ hours	Digital Training » Classroom Training »
Cloud Computing with AWS	10 minutes	Webpage »
AWS Glossary	30 minutes	Whitepaper »
Job Roles in the Cloud	30 minutes	Digital Training »

Step 1: Learn AWS Machine Learning fundamentals

LEARNING RESOURCE	DURATION	TYPE
Demystifying AI/ML/DL	45 minutes	Digital Training »
Machine Learning Essentials for Business and Technical Decision Makers	90 minutes	Digital Training »
Machine Learning for Business Challenges	1 hour	Digital Training »
ML Building Blocks: Services and Terminology	40 minutes	Digital Training »

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aws training and certification

Step 1: Learn AWS Machine Learning fundamentals

LEARNING RESOURCE	DURATION	TYPE
Process Model: CRISP-DM on the AWS Stack	50 minutes	Digital Training »
Machine Learning Foundations: Evolution of ML and AI	1 hour	Whitepaper »
AWS Machine Learning	30 minutes	Webpage »
Exploring the Machine Learning Toolset	80 minutes	Digital Training »
Math for Machine Learning	8 hours	Digital Training »
The Elements of Data Science	8 hours	Digital Training »

Step 2: Learn AWS Machine Learning cloud concepts and best practices

LEARNING RESOURCE	DURATION	TYPE
Power Machine Learning at Scale	1 hour	Whitepaper »
Machine Learning Terminology and Process	1 hour	Digital Training »
Machine Learning Security	30 minutes	Digital Training »
Developing Machine Learning Applications	2.5 hours	Digital Training »
Fraud Detection Using Machine Learning	1 hour	Digital Training »
Amazon SageMaker: Build an Object Detection Model Using Images Labeled with Ground Truth	70 minutes	Digital Training »
Practical Data Science with Amazon SageMaker	1 day	Classroom Training »
OR *The Machine Learning Pipeline on AWS*	4 days	Classroom Training »
Building Data Lakes on AWS	1 day	Classroom Training »
Amazon SageMaker: Simplifying ML Application Development (on edX)	4 weeks	edX Digital Training »

Step 2: Learn AWS Machine Learning cloud concepts and best practices

LEARNING RESOURCE	DURATION	TYPE
Amazon SageMaker Technical Deep Dive Series	2.5 hours	Video »
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 »
Deep Learning on AWS Technical Guide	1 hour	Guide »
Deep Learning on AWS	1 day	Classroom Training »
Big Data on AWS	3 days	Classroom Training »
Data Science Capstone: Real World Machine Learning Decisions	50 minutes	Digital Training »
AWS Machine Learning blog	5 minutes	Blog »

Step 3: Prepare for and take the AWS Certified Machine Learning - Specialty certification exam

LEARNING RESOURCE	DURATION	TYPE
Exam Readiness: AWS Certified Machine Learning – Specialty	3.5 hours	Digital Training »
	1 day	Classroom Training »
AWS Certified Machine Learning – Specialty exam guide and sample questions	1 hour	Exam Guide »
	4 hours	Sample Questions »
AWS Certified Machine Learning – Specialty practice exam	4 hours	Practice Exam »
AWS Certified Machine Learning – Specialty Certification exam	3 hours	Exam »

Explore additional resources

LEARNING RESOURCE	DESCRIPTION	
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.	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**