

# 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.

### Learn the fundamentals of the AWS Cloud

LEARNING RESOURCE	DURATION	TYPE
What is Cloud Computing?	10 minutes	<a href="#">Webpage »</a>
Overview of AWS	2 hours	<a href="#">Whitepaper »</a>
<i>AWS Cloud Practitioner Essentials</i>	6+ hours	<a href="#">Digital Training »</a> <a href="#">Classroom Training »</a>
Cloud Computing with AWS	10 minutes	<a href="#">Webpage »</a>
AWS Glossary	30 minutes	<a href="#">Whitepaper »</a>
<i>Job Roles in the Cloud</i>	30 minutes	<a href="#">Digital Training »</a>

### Step 1: Learn AWS Machine Learning fundamentals

LEARNING RESOURCE	DURATION	TYPE
<i>Demystifying AI/ML/DL</i>	45 minutes	<a href="#">Digital Training »</a>
<i>Machine Learning for Leaders</i>	10 minutes	<a href="#">Digital Training »</a>
<i>Machine Learning for Business Challenges</i>	1 hour	<a href="#">Digital Training »</a>
<i>ML Building Blocks: Services and Terminology</i>	40 minutes	<a href="#">Digital Training »</a>

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### Step 1: Learn AWS Machine Learning fundamentals

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

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

LEARNING RESOURCE	DURATION	TYPE
Managing Machine Learning Projects	1 hour	<a href="#">Whitepaper »</a>
Power Machine Learning at Scale	1 hour	<a href="#">Whitepaper »</a>
<i>Machine Learning Terminology and Process</i>	1 hour	<a href="#">Digital Training »</a>
<i>Machine Learning Security</i>	30 minutes	<a href="#">Digital Training »</a>
<i>Developing Machine Learning Applications</i>	2.5 hours	<a href="#">Digital Training »</a>
<i>Amazon SageMaker: Build an Object Detection Model Using Images Labeled with Ground Truth</i>	70 minutes	<a href="#">Digital Training »</a>
<i>Practical Data Science with Amazon SageMaker</i> <b>OR</b> <i>The Machine Learning Pipeline on AWS</i>	1 day	<a href="#">Classroom Training »</a>
	4 days	<a href="#">Classroom Training »</a>
<i>Amazon SageMaker: Simplifying ML Application Development (on edX)</i>	4 weeks	<a href="#">edX Digital Training »</a>

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

LEARNING RESOURCE	DURATION	TYPE
Amazon SageMaker Technical Deep Dive Series	2.5 hours	<a href="#">Video »</a>
Machine Learning University (MLU) <i>Accelerated Tabular Data</i>	3 hours	<a href="#">Video »</a>
Machine Learning University (MLU) <i>Accelerated Natural Language Processing</i>	3 hours	<a href="#">Video »</a>
Machine Learning University (MLU) <i>Accelerated Computer Vision</i>	3 hours	<a href="#">Video »</a>
Deep Learning on AWS Technical Guide	1 hour	<a href="#">Guide »</a>
<i>Deep Learning on AWS</i>	1 day	<a href="#">Classroom Training »</a>
<i>Big Data on AWS</i>	3 days	<a href="#">Classroom Training »</a>
<i>Data Science Capstone: Real World Machine Learning Decisions</i>	50 minutes	<a href="#">Digital Training »</a>
AWS Machine Learning blog	5 minutes	<a href="#">Blog »</a>

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

LEARNING RESOURCE	DURATION	TYPE
<i>Exam Readiness: AWS Certified Machine Learning – Specialty</i>	3.5 hours	<a href="#">Digital Training »</a>
	1 day	<a href="#">Classroom Training »</a>
<i>AWS Certified Machine Learning – Specialty</i> exam guide and sample questions	1 hour	<a href="#">Exam Guide »</a>
	4 hours	<a href="#">Sample Questions »</a>
<i>AWS Certified Machine Learning – Specialty</i> practice exam	4 hours	<a href="#">Practice Exam »</a>
<i>AWS Certified Machine Learning – Specialty</i> Certification exam	3 hours	<a href="#">Exam »</a>

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## 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.	<a href="#">Explore »</a>
AWS Whitepapers & Guides	Explore technical whitepapers, technical guides, reference material, and reference architecture diagrams, all authored by AWS and the AWS community.	<a href="#">Explore »</a>
AWS User Group	Join and connect with AWS users all over the world to share ideas and learn.	<a href="#">Explore »</a>
AWS Events & Webinars	Connect with, collaborate with, and learn from AWS experts.	<a href="#">Explore »</a>
AWS Podcast	Listen and learn about AWS.	<a href="#">Explore »</a>
AWS Blog	Read about the latest launches from AWS Technical Evangelist Jeff Barr and others.	<a href="#">Explore »</a>
AWS Documentation	Search for AWS service guides, API references, tutorials, projects, SDKs, and toolkits.	<a href="#">Explore »</a>
AWS Knowledge Center	Review AWS Support’s responses to AWS customers’ most frequently asked questions.	<a href="#">Explore »</a>
AWS FAQs	Find answers to product- and technical-related frequently asked questions.	<a href="#">Explore »</a>
AWS Hands-On Tutorials	Get started with 10-minute, step-by-step tutorials to launch your first application.	<a href="#">Explore »</a>
AWS Solutions Library	Use vetted, technical reference implementations designed to help you solve common problems and build faster.	<a href="#">Explore »</a>
AWS YouTube Channel	Explore a wide variety of AWS topics by watching videos created by AWS experts across the world.	<a href="#">Explore »</a>

**For a training plan customized for your requirements,**  
contact your AWS Account Manager or contact us [here](#)

**We would love to hear from you.**  
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