

AWS Ramp-Up Guide: Machine Learning

For Developers, Engineers and Data Scientists

AWS Training and Certification builds your competence, confidence, and credibility through practical cloud skills that help you innovate and build your future. Use this go-to reference guide to ramp up your knowledge of fundamentals, concepts, and best practices of machine learning. You'll find free digital training offerings, classroom courses, videos, whitepapers, certifications, and other resources. It's all selected by AWS experts to teach you in-demand cloud skills and the real-world knowledge you can use right away to grow your career. To enroll in training and certification exams, and track your progress, visit aws.training and set up a free account.

Phase	Recommended Learning Resource	Duration	Type
Phase 0 Learn the fundamentals of AWS Cloud	– What is Cloud Computing?	10 minutes	Webpage
	– Overview of AWS	2 hours	Whitepaper
	– <i>AWS Cloud Practitioner Essentials (Second Edition)</i> free digital course or classroom course	6+ hours	Training
	– Cloud Computing with AWS	10 minutes	Webpage
	– AWS Glossary with definitions of key terms and concepts	30 minutes	Whitepaper
	– Job Roles in the Cloud free digital course	30 minutes	Training
	– AWS Pricing	15 minutes	Webpage
	– How AWS Pricing Works	45 minutes	Whitepaper
	– Compare AWS Support Plans	5 minutes	Whitepaper
	– AWS Cloud Security	10 minutes	Webpage
	– AWS Shared Responsibility Model free digital course	10 minutes	Training
	– Shared Responsibility Model	5 minutes	Webpage
Phase 1 Learn AWS machine learning fundamentals	– Demystifying AI/ML/DL free digital course	45 minutes	Training
	– Machine Learning for Leaders free digital course	10 minutes	Training
	– Machine Learning for Business Challenges free digital course	1 hour	Training
	– ML Building Blocks: Services and Terminology free digital course	40 minutes	Training
	– Process Model: CRISP-DM on the AWS Stack free digital course	50 minutes	Training
	– Machine Learning Foundations: Evolution of ML and AI	1 hour	Whitepaper
	– AWS Machine Learning	30 minutes	Webpage
	– Exploring the Machine Learning Toolset free digital course	80 minutes	Training
	– Math for Machine Learning free digital course	8 hours	Training
	– The Elements of Data Science free digital course	8 hours	Training
Phase 2 Learn AWS Machine Learning cloud concepts and best practices	– Managing Machine Learning Projects	1 hour	Whitepaper
	– Power Machine Learning at Scale	30 minutes	Whitepaper
	– Machine Learning Data Readiness free digital course	1 hour	Training
	– Machine Learning Security free digital course	30 minutes	Training
	– Developing Machine Learning Applications free digital course	2.5 hours	Training
	– Amazon SageMaker: Build an Object Detection Model Using Images Labeled with Ground Truth free digital course	1+ hours	Training
	– Practical Data Science with Amazon SageMaker classroom course	1 day	Training
	– The Machine Learning Pipeline on AWS classroom course	4 days	Training

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Phase 2 continued	– Amazon SageMaker: Simplifying ML Application Development free digital course on edX	2.5 hours	Training
	– Amazon Sagemaker Technical Deep Dive Series	3 hours	Video
	– Deep Learning on AWS Technical Guide	2 hours	Guide
	– Deep Learning on AWS classroom course	1 day	Training
	– Big Data on AWS classroom course	3 day	Training
	– Data Science Capstone: Real World Machine Learning Decisions free digital course	50 minutes	Training
	– AWS Machine Learning blog	10 minutes	Blog
Phase 3 Prepare for and take the AWS Certified Machine Learning – Specialty certification exam	– AWS Certified Machine Learning – Specialty exam guide and sample questions	1 hour	Guide
	– AWS Certified Machine Learning – Specialty certification exam (recommended for those with at least a year of experience developing, architecting, or running ML/deep learning workloads on the AWS Cloud)	3 hours	Exam
Phase 4 Explore additional resources	– Learning Library at aws.training : 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.	30 minutes	Training
	– AWS User Group : Join and connect with AWS users all over the world to share ideas and learn.	10 minutes	User Group
	– AWS Events and Webinars : Connect with, collaborate with, and learn from AWS experts. Key events include AWS re:Invent, AWS re:Inforce, and AWS Summits.	10 minutes	Events / Webinars
	– AWS Podcast : Listen and learn about AWS.	10 minutes	Podcast
	– AWS Blog : Read about the latest launches from AWS Technical Evangelist Jeff Barr and others	20 minutes	Blog
	– What’s New with AWS : Stay up to date on the latest announcements from AWS	20 minutes	Blog
		10 minutes	Webpage

For a training plan customized for your requirements, contact your AWS Account Manager or contact us at aws.amazon.com/contact-us/aws-training/.

We would love to hear from you. Provide your feedback on this AWS Ramp-Up Guide [here](#).