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

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Phase	Recommended Learning Resource	Duration	Type
Phase 2 continued	– Amazon Sagemaker Technical Deep Dive Series – Deep Learning on AWS Technical Guide – Deep Learning on AWS classroom course – Big Data on AWS classroom course – Data Science Capstone: Real World Machine Learning Decisions free digital course – AWS Machine Learning blog	3 hours 2 hours 1 day 3 day 50 minutes 10 minutes	Video Guide Training Training Training 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 – 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)	1 hour 3 hours	Guide 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. – AWS User Group: Join and connect with AWS users all over the world to share ideas and learn. – 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. – AWS Podcast: Listen and learn about AWS. – AWS Blog: Read about the latest launches from AWS Technical Evangelist Jeff Barr and others – What's New with AWS: Stay up to date on the latest announcements from AWS	30 minutes 10 minutes 10 minutes 10 minutes 20 minutes 20 minutes 10 minutes	Training User Group Events / Webinars Podcast Blog Blog 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.

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