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Machine Learning Path: Developer – Skills Tracker

Track your skills growth along a learning
path curated just for developers
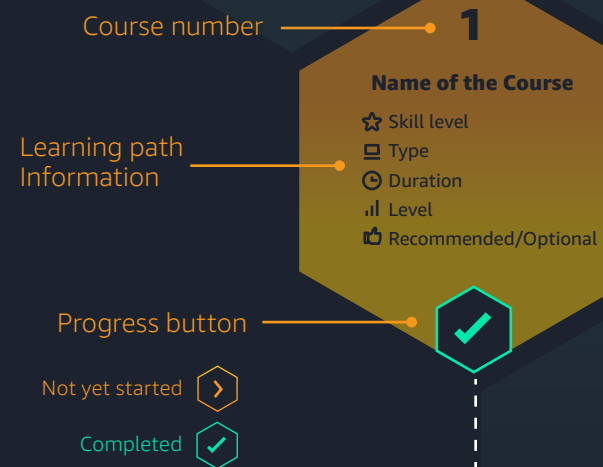
Map your journey to machine learning expert

The AWS Training and Certification Machine Learning Path: Developer is a curated curriculum of self-paced digital, virtual classroom, and in-person classroom courses designed for developers, software engineers, and builders who want to become machine learning subject-matter experts. Most courses are free and available on demand—so you can study machine learning and real-world applications however, whenever, and wherever you want.

This skills tracker helps you chart your progress as you move forward on the learning path. With each course, you'll be building machine learning skills. Grounded in the foundations of software development, this machine learning training is built on the curriculum Amazon trusts to help its own developers and engineers. As you develop your abilities, you can apply your knowledge to your own real-world projects, achieve an industry-recognized certification to advance your career, and continue to learn and grow your skill set.

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How to use this skills tracker

Look for symbols and icons on the learning path for information about course lengths, venues (digital, virtual instructor-led, or classroom), and which specific skills you'll walk away with. Mark your progress on the map by clicking the status buttons to indicate when courses are completed or not yet started. Click course titles to learn more about each training course and where it lies on the larger path.

Your machine learning journey begins now.

Course number

1

Name of the Course

Learning path Information

☆ Skill level
🖥 Type
🕐 Duration
📶 Level
👍 Recommended/Optional

Progress button

Not yet started ❯

Completed ✔

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Use the skills tracker to realize your machine learning training goals

2 hrs, 50 mins
Advanced
Recommended
Exam

Path completed!

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⭐ 7
Digital
8 hrs
Intermediate
Recommended

⭐ 3
Digital
2 hrs, 30 mins
Advanced
Recommended

⭐ 5
Digital
6 hrs, 30 mins
Advanced
Recommended

⭐ 1
Digital
50 mins
Intermediate
Recommended

You're halfway there!
✔ Machine learning terminology
✔ CRISP-DM methodology and
✔ framework
✔ Problem formulation
✔ Exploratory data analysis
✔ Feature engineering
✔ Model training
✔ Model tuning and debugging
✔ Model evaluation
✔ Model deployment/productionizing
✔ Data preparation and cleaning
✔ Amazon SageMaker

⭐ 1
Digital
30 mins
Intermediate
Recommended

⭐ 1
Digital
40 mins
Fundamental
Recommended

⭐ 8
Virtual   Classroom
1 day
Intermediate
Recommended

⭐ 8
Virtual   Classroom
4 days
Intermediate
Recommended

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4

Continue your journey to becoming a machine learning expert

🖥 Digital
🕐 1 hr, 30 mins
📊 Intermediate
👍 Optional

👥 Virtual
🕐 3 days
📊 Intermediate
👍 Optional

🖥 Digital
🕐 1 hrs, 20 mins
📊 Advanced
👍 Optional

🖥 Digital
🕐 2 hrs, 30 mins
📊 Advanced
👍 Optional

AWS machine learning expertise unlocked!

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Explore the Machine Learning Path: Developer courses

- ✔ ML Building Blocks: Services and Terminology
- ✔ Process Model: CRISP-DM on the AWS Stack
- ✔ The Elements of Data Science
- ✔ Developing Machine Learning Applications
- ✔ Practical Data Science with Amazon SageMaker
- ✔ The Machine Learning Pipeline on AWS
- ✔ Machine Learning: Security
- ✔ Exam Readiness: AWS Certified Machine Learning – Specialty
- ✔ AWS Certified Machine Learning – Specialty Certification

Advance your skills with additional courses

- ✔ AWS DeepRacer: Driven by Reinforcement Learning
- ✔ Big Data on AWS
- ✔ Speaking of: Machine Learning Translation and NLP
- ✔ Seeing Clearly: Computer Vision Theory

ML Building Blocks:
Services and Terminology

Sign up or start the course »

About this course

Begin your journey by building a solid foundation in machine learning. You'll explore the most important terms and processes, followed by examples of use cases, applications, platform services, frameworks, interfaces, and infrastructures involved with machine learning. Finally, you'll gain a deeper understanding of how data fits into the picture and learn how a business problem becomes a machine learning opportunity.

Start   Finish

Skills learned

✔ Machine learning terminology

🖥 Digital

🕐 40 mins

📊 Fundamental

👍 Recommended

Process Model: CRISP-DM on the AWS Stack

Sign up or start the course »

About this course

Experience a complete walkthrough of CRISP-DM. An experienced data scientist who works with AWS will guide you through the methodology and framework. You'll also learn how to apply the six phases of the CRISP-DM model to your own work.

Start   Finish

Skills learned

✔ CRIPS-DM methodology and framework

🖵 Digital

🕐 50 mins

📊 Intermediate

👍 Recommended

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The Elements of Data Science

Sign up or start the course »

About this course

Building and improving models are core machine learning skills recommended for any developer. In this first course, you'll receive the robust introduction you need for a solid machine learning foundation, which includes training on problem formulation, exploratory data analysis, feature engineering, model training, tuning and debugging, as well as model evaluation and productionizing.

Start   Finish

Skills learned

✔ Problem formulation
✔ Exploratory data analysis
✔ Feature engineering
✔ Model training
✔ Model tuning and debugging
✔ Model evaluation
✔ Model deployment/productionizing

🖵 Digital
🕐 8 hrs
📊 Intermediate
👍 Recommended

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Developing Machine Learning Applications

Sign up or start the course »

About this course

Harness the power of Amazon SageMaker like the experts at Amazon do. Train and tune models, learn how to use pre-built algorithms, and discover how to build your own algorithms for specific use cases like recommended systems and anomaly detection.

Start   Finish

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Skills learned

✔ Model training
✔ Model tuning and debugging
✔ Amazon SageMaker

▭ Digital
◷ 2 hrs, 30 mins
▥ Advanced
👍 Recommended

Practical Data Science with Amazon SageMaker

Sign up or start the course »

About this course

See real-world use cases in action and explore the data science process as it relates to the practical use of Amazon SageMaker— from analyzing and visualizing a data set to prepping data and engineering features. Learn model building, training, tuning, and deployment. This virtual instructor-led course lets you ask questions and interact with an expert, providing an engaging and timely learning experience.

Start   Finish

Skills learned

✔ Exploratory data analysis
✔ Feature engineering
✔ Model training
✔ Model tuning and debugging
✔ Model evaluation
✔ Model deployment/productionizing
✔ Data preparation and cleaning
✔ Amazon SageMaker

🖥 Virtual or 👥 Classroom

🕐 1 day

📊 Intermediate

👍 Recommended

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The Machine Learning Pipeline on AWS

Sign up or start the course »

About this course

This course features a hands-on, project-based approach, giving you the opportunity to solve a real business problem with machine learning. Using knowledge gained from instructor-led presentations and demo exercises, you will choose and solve one of three business problem projects: 1) predicting flight delays, 2) recommending products based on customer data, or 3) detecting credit card fraud. Plenty of time is allotted to allow for real time questions and student-instructor interaction.

Start   Finish

Skills learned

✔ Problem formulation
✔ Data preparation and cleaning
✔ Amazon SageMaker
✔ Feature engineering
✔ Model training
✔ Model tuning and debugging
✔ Model evaluation
✔ Model deployment/productionizing

🖥 Virtual or 👥 Classroom

🕐 4 days

📊 Intermediate

👍 Recommended

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Machine Learning Security

Sign up or start the course »

About this course

Safeguard your machine learning projects with the comprehensive security of AWS. Learn about NACLs, security groups, identity and access management best practices, encryption, and more products and services to protect your machine learning applications.

Start   Finish
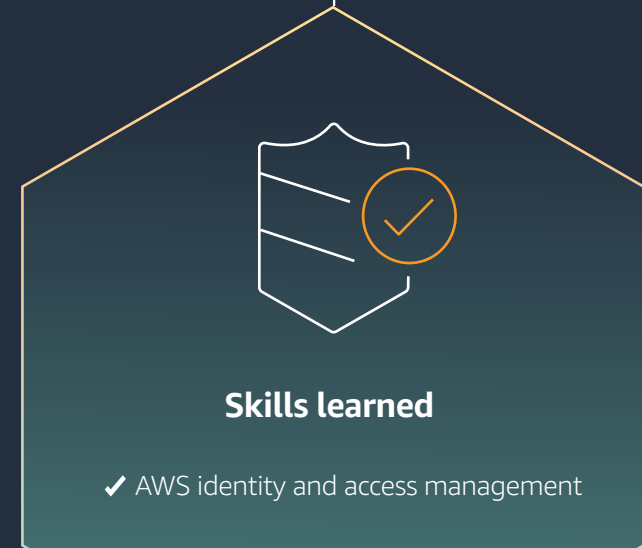
Skills learned

✔ AWS identity and access management

🖥 Digital

🕐 30 mins

📊 Intermediate

👍 Recommended

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Exam Readiness: AWS Certified Machine Learning—Specialty

Sign up or start the course »

About this course

Prepare for the AWS Certified Machine Learning – Specialty exam through this hands-on, interactive course. Learn how to interpret exam questions, apply concepts being tested by the exam, and allocate your study time. The course includes sample exam questions with explanations that will help you more easily determine correct answers and eliminate incorrect responses.

Start   Finish

Skills learned

✔ Exploratory data analysis
✔ Data engineering
✔ ML implementation and operations
✔ Model training
✔ Model evaluation

🖳 Digital
🕐 6 hrs, 30 mins
📊 Advanced
👍 Recommended

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AWS Certified Machine Learning—Specialty Certification

Sign up or start the course »

About this exam

What better way to validate your machine learning skills? Take the AWS Certified Machine Learning – Specialty exam to demonstrate that you possess the talent and know-how to build, train, tune, and deploy machine learning models using the AWS Cloud. This industry-recognized credential also shows that you can select, justify, identify and approach, design, and implement a machine learning solution for a given business problem.

Start   Finish

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2 hrs, 50 mins
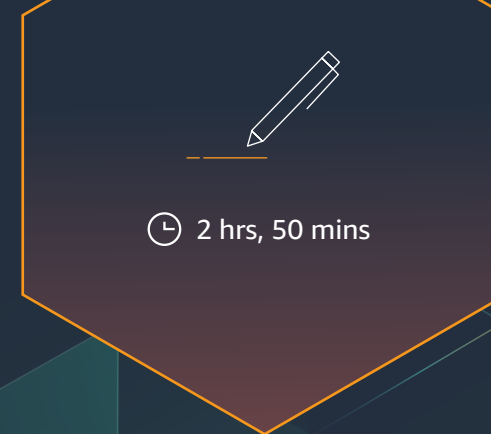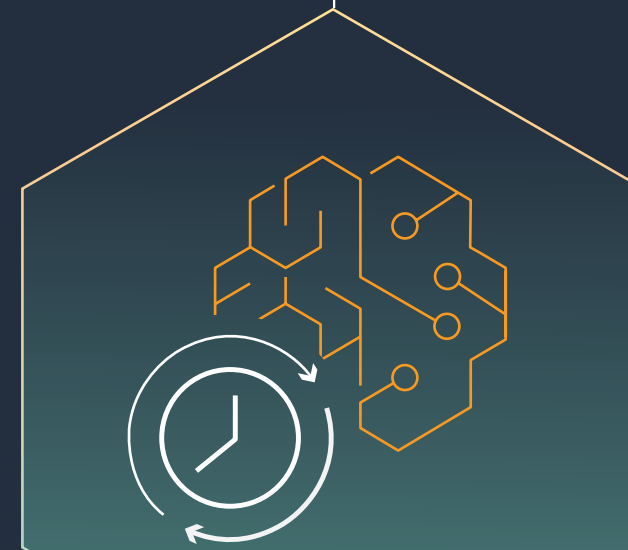
Be the developer with industry-recognized machine learning credibility

About the certification

Once you've validated your developer skills in machine learning by earning the AWS Certified Machine Learning – Specialty certification, you can quickly put them into practice. Your new knowledge can also help you advance your career and unlock professional opportunities.

Ready to leverage your increased credibility? AWS certified professionals and specialists are eligible to promote their skills with authorized digital badges, attend exclusive AWS-sponsored certification event invites, receive discounts on additional AWS Training and Certification courses, and attain many more practical benefits.

Start   Finish

Skills learned

✔ Machine learning terminology
✔ CRISP-DM methodology and
✔ framework
✔ Problem formulation
✔ Data preparation and cleaning
✔ Feature engineering
✔ Model training
✔ Model tuning and debugging
✔ Model evaluation
✔ Model deployment / productionizing
✔ AWS AI/ML stack
✔ Amazon SageMaker
✔ AWS identity and access management

aws certified

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Take your machine learning training to the next level

Expand your knowledge with additional training opportunities that can help transform you into a machine learning expert.

AWS DeepRacer: Driven by Reinforcement Learning

Sign up »

Explore the power and capabilities of Reinforcement Learning (RL) with this hands-on course. Start building, training, and evaluating your own RL models using AWS DeepRacer.

Big Data on AWS

Sign up »

Learn the best practices for processing big data sets, as well as designing and creating big data environments with Amazon EMR, Hadoop, and other highly effective tools.

Speaking of: Machine Learning Translation and NLP

Sign up »

Discover how human language and machine learning work together with neural networks and natural-language processing functions like automatic speech recognition, natural- and fluent-language translation, and insights.

Seeing Clearly: Computer Vision Theory

Sign up »

Find out how computer vision works with machines through topics such as automatic recognition, deep-learning-enabled cameras, satellite image classification, and more.

Digital
1 hr, 30 mins
Intermediate

Virtual
3 days
Intermediate

Digital
1 hr, 20 mins
Advanced

Digital
2 hrs, 30 mins
Advanced

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AWS is how you innovate with machine learning

More machine learning happens on AWS than anywhere else.* When you train with AWS, you train on the same leading-edge technology that helps more than one million active customers innovate at will.

Our Machine Learning Path: Developer offers curated training courses built on the curriculum that Amazon data scientists have used to build their own highly relevant skills.

Now, it's your turn. Take the courses to build your own skills and gain relevant machine learning knowledge anytime, anywhere.

*Deep Learning on AWS Guidebook, Nucleus Research, October 2019

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Start your machine learning journey today

The lack of adequately trained talent is a growing barrier to the widespread adoption of machine learning. But with training from AWS, you can use the machine learning skills gap to your advantage. Gain the essential skills you need to accelerate your career and become the innovative problem-solver others rely on.

Explore the AWS Training and Certification Machine Learning Path: Developer today!

[Learn more]