

CLOUD

ADVANCED

2 DAYS

AWS Certified Machine Learning Specialty

Build a strong foundation in machine learning on AWS, covering core concepts, data preparation, model training, and deployment. Learn how to design, optimize, and scale cost effective machine learning solutions using AWS services for real world business applications.

Why AWS Machine Learning?

Expertise in AWS Machine Learning Services

Certified professionals can effectively design and deploy machine learning solutions tailored to your business needs.

Accurate Data Insights and Predictive Analytics

With certified professionals, your business can harness the power of machine learning to gain accurate data insights and perform predictive analytics.

Enhanced Customer Experience

By leveraging AWS machine learning services, certified professionals can help enhance the customer experience. They can develop models to personalise recommendations, improve search capabilities, enable sentiment analysis, and automate customer support.

What you'll be able to do

- ✓ Gain a comprehensive understanding of the fundamentals of machine learning, including key concepts, algorithms, and techniques.
- ✓ Explore various AWS machine learning services such as Amazon SageMaker, Amazon Rekognition, Amazon Comprehend, and Amazon Forecast.
- ✓ Learn data preparation, cleaning, and feature engineering techniques to ensure high-quality data for training machine learning models.
- ✓ Develop skills in training machine learning models using AWS services.
- ✓ Acquire knowledge of deploying machine learning models in production environments using AWS services.
- ✓ Learn to design and implement scalable and cost-effective machine learning architectures on AWS.
- ✓ Develop skills in optimising machine learning models for improved performance.

Who this is for

- Data Scientists Machine Learning Engineers AI Developers Data Analysts Solution Architects

Curriculum

01 Data Engineering

- Create data repositories for machine learning
- Identify and implement a data ingestion solution
- Identify and implement a data transformation solution

02 Exploratory Data Analysis

- Sanitize and prepare data for modeling
- Perform feature engineering
- Analyze and visualise data for machine learning

03 Modeling

- Frame business problems as machine learning problems
- Select the appropriate model(s) for a given machine learning problem
- Train machine learning models
- Perform hyperparameter optimisation
- Evaluate machine learning models

04 Machine Learning Implementation and Operation

- Build machine learning solutions for performance, availability, scalability, resiliency, and fault tolerance
- Recommend and implement the appropriate machine learning services and features for a given problem
- Apply basic AWS security practices to machine learning solutions
- Deploy and operationalize machine learning solutions