APPLIED TECHNOLOGY ACADEMY

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Machine Learning Engineering on AWS Training

Award Winning Training · Applied Technology Academy

Transform your ML expertise into production-scale solutions on AWS. Learn to build, deploy, and operationalize machine learning applications using Amazon SageMaker and EMR. Perfect for ML professionals seeking AWS certification, this hands-on course delivers practical skills for implementing enterprise-grade ML solutions in this three-day course.

LEVEL	DURATION	EXPERIENCE	AVERAGE SALARY	LABS
Intermediate	**3 Days**	**Basic Programing**	**$120,230**	**Yes**

Course Overview

Machine Learning (ML) Engineering on Amazon Web Services (AWS) is a 3-day intermediate course designed for ML professionals seeking to learn machine learning engineering on AWS. Participants learn to build, deploy, orchestrate, and operationalize ML solutions at scale through a balanced combination of theory, practical labs, and activities. Participants will gain practical experience using AWS services such as Amazon SageMaker AI and analytics tools such as Amazon EMR to develop robust, scalable, and production-ready machine learning applications.

Course Outline

- **Module 1: Day 1**
- **Module 0: Course Introduction**
- **Module 1: Introduction to Machine Learning (ML) on AWS**
- **Module 2: Analyzing Machine Learning (ML) Challenges**
- **Module 3: Data Processing for Machine Learning (ML)**
- **Module 4: Data Transformation and Feature Engineering**
- **Module 2: Day 2**
- **Module 5: Choosing a Modeling Approach**
- **Module 6: Training Machine Learning (ML) Models**
- **Module 7: Evaluating and Tuning Machine Learning (ML) models**
- **Module 8: Model Deployment Strategies**
- **Module 3: Day 3**
- **Module 9: Securing AWS Machine Learning (ML) Resources**
- **Module 10: Machine Learning Operations (MLOps) and Automated Deployment with Amazon SageMaker Studio**

- **Module 11: Monitoring Model Performance and Data Quality**
- **Module 12: Course Wrap-up**

Prerequisites

We recommend that attendees of this course have the following:

- Familiarity with basic machine learning concepts
- Working knowledge of Python programming language and common data science libraries such as NumPy, Pandas, and Scikit-learn
- Basic understanding of cloud computing concepts and familiarity with AWS
- Experience with version control systems such as Git (beneficial but not required)

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.