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AWS

AWS Certified Machine Learning (Specialty)

Validate your technical skills and grow your career.

Phoenix TS' AWS Certified Machine Learning (Specialty) certification course is intended to validate a participant's ability to design, implement, deploy, and maintain machine learning (ML) solutions for given business problems.

An AWS Machine Learning (Specialty) exam helps candidates who usually fulfil a data science or development role.

Why Take The AWS Machine Learning (Specialty) Course?

Your certification places you at the front of the line.

Passing the exam will allow you to attain an industry-recognized merit from AWS that says: **you know what you're doing.** It proves to your employer that you have the necessary skills and knowledge to earn top dollar when you work for them.

Increase Your Salary:

- The average starting salary of an AWS Machine Learning (Specialty) in 2019 was around $142,000.

Abilities Validated By The Certification:

- Select and justify the appropriate ML approach for a given business problem
- Identify appropriate AWS services to implement ML solutions
- Design and implement scalable, cost-optimized, reliable, and secure ML solutions

10420 Little Patuxent Parkway Suite 500 Columbia, MD 21044

Recommended Knowledge & Experience:

- 1-2 years of experience developing, architecting, or running ML/deep learning workloads on the AWS Cloud
- The ability to express the intuition behind basic ML algorithms
- Experience performing basic hyperparameter optimization
- Experience with ML and deep learning frameworks
- The ability to follow model-training best practices
- The ability to follow deployment and operational best practices

Scoring

Domain 1: Data Engineering 20%
Domain 2: Exploratory Data Analysis 24%
Domain 3: Modeling 36%
Domain 4: Machine Learning Implementation and Operations 20%

Exam Topics:

AWS Certified Machine Learning – Specialty (MLS-C01)

Domain 1: Data Engineering

1.1 Create data repositories for machine learning.
1.2 Identify and implement a data-ingestion solution.
1.3 Identify and implement a data-transformation solution.

Domain 2: Exploratory Data Analysis

2.1 Sanitize and prepare data for modeling.
2.2 Perform feature engineering.
2.3 Analyze and visualize data for machine learning.

Domain 3: Modeling

3.1 Frame business problems as machine learning problems.
3.2 Select the appropriate model(s) for a given machine learning problem.
3.3 Train machine learning models.
3.4 Perform hyperparameter optimization.
3.5 Evaluate machine learning models.

Domain 4: Machine Learning Implementation and Operations

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

Prepare for your exam:

The best way to prepare is with first-hand experience. Taking advantage of the opportunities that Phoenix TS provides will assist you with gathering all the knowledge and skills you'll need for certification.

Phoenix TS AWS Certified Machine Learning – Learning Pathways

- **Practical Data Science with Amazon SageMaker**

  Course Overview In this 1-day AWS course, students will learn about the stages of a data science process for Machine Learning. The course will teach students to: Understand a Data Set Identify the aspects of model building Demonstrate the capabilities of Amazon SageMaker Schedule Program Level Advanced Training Delivery Methods Group Live Duration 1 Days […]

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- **The Machine Learning Pipeline on AWS**

  Course Overview In this 4-day AWS course, students will gain knowledge about each stage of the Machine Learning pipeline to solve different business problems and create projects using Amazon SageMaker. The course will teach students: How to use ML to solve different problems Implement an ML model into Amazon SageMaker Apply machine ML to real […]

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- **Deep Learning on AWS**

Understanding the concept of Deep Learning and Machine Learning is essential to understanding modern information security procedures. Become fluent in these topics and learn to implement different programming frameworks into Deep Learning workloads.

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Exam Details

- Multiple choice, multiple answers
- Testing in person or online proctored exam
- 130 Min to take the test
- $150 test fee
- Available in English, Japanese, Korean, and Simplified Chinese