

Machine Learning with AWS



The Course

At Amazon, we've been investing deeply in artificial intelligence for over 20 years. Machine learning (ML) algorithms drive many of our internal systems. It's also core to the capabilities our customers experience – from the path optimization in our fulfillment centers, and Amazon.com's recommendations engine, to Echo powered by Alexa, our drone initiative Prime Air, and our new retail experience Amazon Go. This is just the beginning. Our mission is to share our learnings and ML capabilities as fully managed services, and put them into the hands of every developer and data scientist.

The Eligibility

Passionate Technology Enthusiasts with a minimal knowledge on IT and Operating Systems.

Good to have basic knowledge on Windows, OS & IT Infrastructure.

The Rulepaper Promise

Our training methodologies promises to give the students hands on art enterprise skills to delve deeper into the technologies from a practical and enterprise point of view. Extreme Hands-on-Lab with a self doable on the fly practical based training approaches makes transformation of the student from a no vice to a capable experienced cloud computing engineer.



The Instructor

Enterprise Architect with huge experience on Private and Public Cloud Technologies. The trainers are advisors and members of larger Cloud Computing Forums and seasoned integrators of IT Cloud Computing technologies with more than 12+ years in global large enterprise giants.

Course Contents

Module 1

Introduction to Artificial Intelligence and Machine Learning

- Artificial Intelligence
- Machine Learning
- Machine Learning algorithms
- Applications of Machine Learning

Module 2

Techniques of Machine Learning

- Supervised learning
- Unsupervised learning
- Semi-supervised and Reinforcement learning
- Bias and variance trade-off
- Representation learning

Module 3

Data Preprocessing

- Data preparation
- Feature engineering
- Feature scaling
- Datasets
- Dimensionality reduction

Module 4

Math Refresher

- Concepts of linear algebra
- Eigenvalues, eigenvectors, and eigendecomposition
- Introduction to Calculus
- Probability and statistics

Course Contents

Module 5

Regression

- Regression and its types
- Linear regression: Equations and algorithms

Module 6

Classification

- Meaning and types of classification
- Logistic regression
- K-nearest neighbors
- Support vector machines
- Kernel support vector machines
- Naive Bayes
- Decision tree classifier
- Random forest classifier

Module 7

Unsupervised learning: Clustering

- Clustering algorithms
- K-means clustering

Module 8

Introduction to Deep Learning

- Meaning and importance of Deep Learning
- Artificial Neural Networks
- TensorFlow

The Duration

Duration of the Course is 40 hours.

The Lab Requirements

Students must bring their own laptops with basic configuration

The cost of the Training

Please send an email or contact us at enquiry@rulepaper.com to know more about the cost and next batch schedules.

The certifications

Once the training is completed the student have to enroll with Machine Learning with AWS for getting certification and the cost is exclusive of this training . Certification is an optional or good to have feature.