

MACHINE LEARNING MODULE 01

Fundamental Machine Learning

Arcitura®
CERTIFIED
Machine Learning
Specialist

OVERVIEW

This course provides an easy-to-understand overview of machine learning for anyone interested in how it works, what it can and cannot do and how it is commonly utilized in support of business goals. The course covers common algorithm types and further explains how machine learning systems work behind the scenes. The base course materials are accompanied with an informational supplement covering a range of common algorithms and practices.

The primary topics covered by this course are:

- Machine Learning Business and Technology Drivers
- Machine Learning Benefits and Challenges
- Machine Learning Usage Scenarios
- Datasets, Structured, Unstructured and Semi-Structured Data
- Models, Algorithms, Model Training and Learning
- How Machine Learning Works
- Collecting and Pre-Processing Training Data
- Algorithm and Model Selection
- Training Models and Deploy Trained Models
- Machine Learning Algorithms and Practices
- Supervised Learning, Classification, Decision Tree
- Regression, Ensemble Methods, Dimension Reduction
- Unsupervised Learning and Clustering
- Semi-Supervised and Reinforcement Learning
- Machine Learning Best Practices
- How Machine Learning Systems Work
- Common Machine Learning Mechanisms
- How Mechanisms Are Used in Model Training
- Machine Learning and Deep Learning, Artificial Intelligence (AI)

Duration: 1 Day

TRAINING + CERTIFICATION

This course is part of a training and accreditation program through which official certification can be achieved and for which official training and certification badges can be issued.



www.arcitura.com/machinelearning

eLEARNING + PRINTED STUDY KITS

This Arcitura study kit includes the contents listed below. These course materials are available in full-color printed format, as well as in eLearning subscription format, via online access and offline file download.

- Workbook (1 of 3)
- Machine Learning Algorithms and Practices Reference Supplement
- Exam Preparation Guide (1 of 3)
- Symbol Legend Poster
- Mind Map Poster
- Flashcards
- Audio Tutor Recording



Arcitura®

Pearson IVUE

Arcitura OnSite
EXAM PROCTORING

CClaim

Credly

MACHINE LEARNING MODULE 01

Fundamental Machine Learning

	Certified DevOps Specialist	Certified Blockchain Architect	Certified IoT Architect	Certified Containerization Architect	Certified Machine Learning Specialist	Certified Artificial Intelligence Specialist
--	-----------------------------	--------------------------------	-------------------------	--------------------------------------	---------------------------------------	--

MODULE 01 Fundamental DevOps	●					
MODULE 02 DevOps in Practice	●					
MODULE 03 DevOps Lab	●					
MODULE 01 Fundamental Blockchain		●				
MODULE 02 Blockchain Technology & Architecture		●				
MODULE 03 Blockchain Technology & Architecture Lab		●				
MODULE 01 Fundamental IoT			●			
MODULE 02 IoT Technology & Architecture			●			
MODULE 03 IoT Technology & Architecture Lab			●			
MODULE 01 Fundamental Containerization				●		
MODULE 02 Containerization Technology & Architecture				●		
MODULE 03 Containerization Technology & Architecture Lab				●		
MODULE 01 Fundamental Machine Learning					●	
MODULE 02 Advanced Machine Learning					●	
MODULE 03 Machine Learning Lab					●	
MODULE 01 Fundamental Artificial Intelligence						●
MODULE 02 Advanced Artificial Intelligence						●
MODULE 03 Artificial Intelligence Lab						●