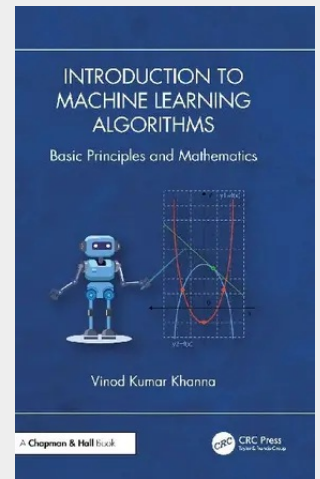


Introduction to Machine Learning Algorithms

Basic Principles and Mathematics

Mathematics is the foundation of machine learning algorithms. To understand the shortcomings of existing algorithms and develop more effective methods, it is essential to understand the mathematical concepts underlying these algorithms and their operational principles. This book serves as an introductory resource, outlining the preliminary concepts and offering insights into the mathematical foundations and operational mechanisms of machine learning algorithms. It describes the basic equations and interrelates the questions arising during practical applications of machine learning with the basic mathematical picture of the algorithms used. Features • Introduces machine learning, highlights the central role of algorithms in machine learning, and explains the core mathematical prerequisites to understanding machine learning algorithms • Systematically examines the sequential steps of classical machine learning algorithms used for classification of data sets into distinct groups; regression, clustering analysis, • Provides an overview of value, policy, and model-based reinforcement learning algorithms. This book is for academicians, scholars, students, and professionals engaged in the study of machine learning and artificial intelligence.

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184,50 €

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*vorbestellbar, Erscheinungstermin ca.
April 2026*

Artikelnummer: 9781032725918

Medium: Buch

ISBN: 978-1-032-72591-8

Verlag: Taylor & Francis Ltd

Erscheinungstermin: 09.04.2026

Sprache(n): Englisch

Auflage: 1. Auflage 2026

Produktform: Gebunden

Gewicht: 453 g

Seiten: 440

Format (B x H): 156 x 234 mm

