

Free Online Machinist Training

Machine Learning in Earth, Environmental and Planetary Sciences
Applied Machine Learning for Data Science Practitioners
Internet of Things enabled Machine Learning for Biomedical Application
Machine Learning with Spark
Advances on P2P, Parallel, Grid, Cloud and Internet Computing
Artificial Intelligence and Machine Learning
Machine Design
Wood Machining News
Training
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Biomolecular Interactions Using Machine Learning
Using the Internet
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Society for Scholarly Publishing (U.S.). Meeting Caroline Howard Patricia Freitag Ericsson

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machine learning in earth environmental and planetary sciences
theoretical and practical applications is a practical guide on implementing different variety of extreme learning machine algorithms to earth and environmental data
the book provides guided examples using real world data for numerous novel

and mathematically detailed machine learning techniques that can be applied in earth environmental and planetary sciences including detailed matlab coding coupled with line by line descriptions of the advantages and limitations of each method the book also presents common postprocessing techniques required for correct data interpretation this book provides students academics and researchers with detailed understanding of how machine learning algorithms can be applied to solve real case problems how to prepare data and how to interpret the results describes how to develop different schemes of machine learning techniques and apply to earth environmental and planetary data provides detailed guided line by line examples using real world data including the appropriate matlab codes includes numerous figures illustrations and tables to help readers better understand the concepts covered

a single volume reference on data science techniques for evaluating and solving business problems using applied machine learning ml applied machine learning for data science practitioners offers a practical step by step guide to building end to end ml solutions for real world business challenges empowering data science practitioners to make informed decisions and select the right techniques for any use case unlike many data science books that focus on popular algorithms and coding this book takes a holistic approach it equips you with the knowledge to evaluate a range of techniques and algorithms the book balances theoretical concepts with practical examples to illustrate key concepts derive insights and demonstrate applications in addition to code snippets and reviewing output the book provides guidance on interpreting results this book is an essential resource if you are looking to elevate your understanding of ml and your technical capabilities combining theoretical and practical coding examples a basic understanding of using data to solve business problems high school level math and statistics and basic python coding skills are assumed written by a recognized data science expert applied machine learning for data science practitioners covers essential topics including data science fundamentals that provide you with an overview of core concepts laying the foundation for understanding ml data preparation covers the process of framing ml problems and preparing data and features for modeling ml problem solving introduces you to a range of ml algorithms including regression classification ranking clustering patterns time series and anomaly detection model optimization explores frameworks decision trees and ensemble methods to enhance performance and guide the selection of the most effective model ml ethics addresses ethical considerations including fairness accountability transparency and ethics model deployment and monitoring focuses on production deployment performance monitoring and adapting to model drift

the text begins by highlighting the benefits of the internet of things enabled machine learning in the healthcare sector examines the diagnosis of diseases using machine learning algorithms and analyzes security and privacy issues in the healthcare systems using the internet of things the text elaborates on image processing implementation for medical images to detect and classify diseases based on magnetic resonance imaging and ultrasound images this

book covers the procedure to recognize emotions using image processing and the internet of things enabled machine learning highlights security and privacy issues in the healthcare system using the internet of things discusses classification and implementation techniques of image segmentation explains different algorithms of machine learning for image processing in a comprehensive manner provides computational intelligence on the internet of things for future biomedical applications including lung cancer it is primarily written for graduate students and academic researchers in the fields of electrical engineering electronics and communications engineering computer science and engineering and biomedical engineering

create scalable machine learning applications to power a modern data driven business using spark 2 x about this book get to the grips with the latest version of apache spark utilize spark s machine learning library to implement predictive analytics leverage spark s powerful tools to load analyze clean and transform your data who this book is for if you have a basic knowledge of machine learning and want to implement various machine learning concepts in the context of spark ml this book is for you you should be well versed with the scala and python languages what you will learn get hands on with the latest version of spark ml create your first spark program with scala and python set up and configure a development environment for spark on your own computer as well as on amazon ec2 access public machine learning datasets and use spark to load process clean and transform data use spark s machine learning library to implement programs by utilizing well known machine learning models deal with large scale text data including feature extraction and using text data as input to your machine learning models write spark functions to evaluate the performance of your machine learning models in detail this book will teach you about popular machine learning algorithms and their implementation you will learn how various machine learning concepts are implemented in the context of spark ml you will start by installing spark in a single and multinode cluster next you ll see how to execute scala and python based programs for spark ml then we will take a few datasets and go deeper into clustering classification and regression toward the end we will also cover text processing using spark ml once you have learned the concepts they can be applied to implement algorithms in either green field implementations or to migrate existing systems to this new platform you can migrate from mahout or scikit to use spark ml by the end of this book you will acquire the skills to leverage spark s features to create your own scalable machine learning applications and power a modern data driven business style and approach this practical tutorial with real world use cases enables you to develop your own machine learning systems with spark the examples will help you combine various techniques and models into an intelligent machine learning system

this book provide latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to p2p grid cloud and internet computing as well as to reveal synergies among such large scale computing paradigms p2p grid cloud and internet

computing technologies have been very fast established as breakthrough paradigms for solving complex problems by enabling aggregation and sharing of an increasing variety of distributed computational resources at large scale grid computing originated as a paradigm for high performance computing as an alternative to expensive supercomputers through different forms of large scale distributed computing p2p computing emerged as a new paradigm after client server and web based computing and has shown useful to the development of social networking business to business b2b business to consumer b2c business to government b2g business to employee b2e and so on cloud computing has been defined as a computing paradigm where the boundaries of computing are determined by economic rationale rather than technical limits cloud computing has fast become the computing paradigm with applicability and adoption in all application domains and providing utility computing at large scale finally internet computing is the basis of any large scale distributed computing paradigms it has very fast developed into a vast area of flourishing field with enormous impact on today's information societies serving thus as a universal platform comprising a large variety of computing forms such as grid p2p cloud and mobile computing

artificial intelligence ai and machine learning ml are rapidly advancing fields that focus on creating systems capable of performing tasks that normally require human intelligence these tasks include learning from experience recognizing patterns making decisions solving problems and adapting to new situations artificial intelligence is the broader concept that aims to build intelligent machines machine learning is a subset of ai that enables systems to automatically learn and improve from data without being explicitly programmed

the topic of distance teaching and online learning associated technologies and applications covers a galaxy of ideas concepts issues concerns and opportunities everything from workforce training to accessing education to digital divide issues and the evolution of distance and online education into a multibillion dollar enterprise is included in the global conversation certifications degrees workforce training and lifelong learning are all a part of public and private educational institutions partnerships with for profit businesses the rise of virtual universities within traditional educational systems competition with for profit institutions and issues of quality are part of the regular workday at national and international educational institutions the encyclopedia of distance learning technologies and applications edited by patricia roger provides a comprehensive coverage of the evolution of distance learning educational programs through distance learning technologies of distance learning program design and implementation program delivery methods distance learning and work force and assessing effectiveness of distance learning programs the encyclopedia of distance learning technologies and applications is an excellent resource for comprehensive knowledge and practices in distance learning programs

the current trend toward machine scoring of student work ericsson and haswell argue has created an emerging issue with implications for higher

education across the disciplines but with particular importance for those in english departments and in administration the academic community has been silent on the issue some would say excluded from it while the commercial entities who develop essay scoring software have been very active machine scoring of student essays is the first volume to seriously consider the educational mechanisms and consequences of this trend and it offers important discussions from some of the leading scholars in writing assessment reading and evaluating student writing is a time consuming process yet it is a vital part of both student placement and coursework at post secondary institutions in recent years commercial computer evaluation programs have been developed to score student essays in both of these contexts two year colleges have been especially drawn to these programs but four year institutions are moving to them as well because of the cost savings they promise unfortunately to a large extent the programs have been written and institutions are installing them without attention to their instructional validity or adequacy since the education software companies are moving so rapidly into what they perceive as a promising new market a wider discussion of machine scoring is vital if scholars hope to influence development and or implementation of the programs being created what is needed then is a critical resource to help teachers and administrators evaluate programs they might be considering and to more fully envision the instructional consequences of adopting them and this is the resource that ericsson and haswell are providing here

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