Forex Trend Classification Using Machine Learning Techniques

Demystifying Artificial intelligenceMachine Learning for Imbalanced DataText Mining with Machine LearningArtificial Intelligence Trends for Data Analytics Using Machine Learning and Deep Learning ApproachesHands-On Artificial Intelligence with TensorFlowMachine Learning Using RMACHINE LEARNING WITH PYTHONMachine Learning Engineering with PythonRisk ModelingDesign of Intelligent Applications using Machine Learning and Deep Learning TechniquesArtificial Intelligence and Machine Learning for BusinessHands-on Supervised Learning with PythonMachine Learning and Big DataSystem Design for Epidemics Using Machine Learning and Deep LearningDisease Prediction using Machine Learning and Data AnalyticsNew Advances in Machine LearningUp and Running Google AutoML and AI Platform: Building Machine Learning and NLP Models Using AutoML and AI Platform for Production Environment (English Edition)Scala Machine Learning ProjectsBoosting Software Development Using Machine LearningBeginning with Machine Learning Prashant Kikani Kumar Abhishek Jan Žižka K. Gayathri Devi Amir Ziai Karthik Ramasubramanian Abhishek Vijayvargia Andrew P. McMahon Terisa Roberts Ramchandra Sharad Mangrulkar Oliver Tensor Gnana Lakshmi T C Uma N. Dulhare G. R. Kanagachidambaresan Geeta Rani Yagang Zhang Navin Sabharwal Md. Rezaul Karim Tirimula Rao Benala Dr. Amit Dua

Demystifying Artificial intelligence Machine Learning for Imbalanced Data Text Mining with Machine Learning Artificial Intelligence Trends for Data Analytics Using Machine Learning and Deep Learning Approaches Hands-On Artificial Intelligence with TensorFlow Machine Learning Using R MACHINE LEARNING WITH PYTHON Machine Learning Engineering with Python Risk Modeling Design of Intelligent Applications using Machine Learning and Deep Learning Techniques Artificial Intelligence and Machine Learning for Business Hands-on Supervised Learning with Python Machine Learning and Big Data System Design for Epidemics Using Machine Learning and Deep Learning Disease Prediction using Machine Learning and Data Analytics New Advances in Machine Learning Up and Running Google AutoML and AI Platform: Building Machine Learning and NLP Models Using AutoML and AI Platform for Production Environment (English Edition) Scala Machine Learning Projects Boosting Software Development Using Machine Learning Beginning with Machine Learning Prashant Kikani Kumar Abhishek Jan Žižka K. Gayathri Devi Amir Ziai Karthik Ramasubramanian Abhishek Vijayvargia Andrew P. McMahon Terisa Roberts Ramchandra Sharad Mangrulkar Oliver Tensor Gnana Lakshmi T C Uma N. Dulhare G. R. Kanagachidambaresan Geeta Rani Yagang Zhang Navin Sabharwal Md. Rezaul Karim Tirimula Rao Benala Dr. Amit Dua

learn ai machine learning from the first principles key features£Ê explore how different industries are using ai and ml for diverse use cases learn core concepts of data science machine learning deep learning and nlp in an easy and intuitive manner cutting edge coverage on use of ml for business products and services explore how different companies are monetizing ai and ml technologies learn how you can start your own journey in the ai field from scratch description ai and machine learning ml are probably the most fascinating technologies of the 21st century ai is literally in every industry now from medical to climate change education to sport finance to entertainment ai is disrupting

every industry as we know so the basic knowledge of ai ml becomes mandatory for everyone this book is your first step to start the journey in this field along with basic concepts of fields like machine learning deep learning and nlp we will also explore how big companies are using these technologies to deliver greater user experience and earning millions of dollars in profit also we will see how the owners of small or medium sized businesses can leverage and integrate these technologies with their products and services leveraging ai and ml can become that competitive moat which can differentiate the product from others in this book you will learn the root concepts of ai ml and how these inanimate machines can actually become smarter than the humans at a few tasks and how companies are using ai and how you can leverage ai to earn profits what you will learn Ê core concepts of data science machine learning deep learning and nlp in simple and intuitive words how you can leverage and integrate ai technologies in your business to differentiate your product in the market the limitations of traditional non tech businesses and how ai can bridge those gaps to increase revenues and decrease costs how ai can help companies in launching new products improving existing ones and automating mundane processes explore how big tech companies are using ai to automate different tasks and providing unique product experiences to their users who this book is for anyone who is curious about this fascinating technology and how it really works at its core it is also beneficial to those who want to start their career in ai ml table of contents £ 1 introduction 2 going deeper in ml concepts 3 business perspective of ai 4 how to get started and pitfalls to avoid

take your machine learning expertise to the next level with this essential guide utilizing libraries like imbalanced learn pytorch scikit learn pandas and numpy to maximize model performance and tackle imbalanced data key features understand how to use modern machine learning frameworks with detailed explanations illustrations and code samples learn cutting edge deep learning techniques to overcome data imbalance explore different methods for dealing with skewed data in ml and dl applications purchase of the print or kindle book includes a free cbook in the pdf format book descriptionas machine learning practitioners we often encounter imbalanced datasets in which one class has considerably fewer instances than the other many machine learning algorithms assume an equilibrium between majority and minority classes leading to suboptimal performance on imbalanced data this comprehensive guide helps you address this class imbalance to significantly improve model performance machine learning for imbalanced data begins by introducing you to the challenges posed by imbalanced datasets and the importance of addressing these issues it then guides you through techniques that enhance the performance of classical machine learning models when using imbalanced data including various sampling and cost sensitive learning methods as you progress you II delve into similar and more advanced techniques for deep learning models employing pytorch as the primary framework throughout the book hands on examples will provide working and reproducible code that II demonstrate the practical implementation of each technique by the end of this book you II be adept at identifying and addressing class imbalances and confidently applying various techniques including sampling cost sensitive techniques and threshold adjustment while using traditional machine learning or deep learning models what you will learn use imbalanced data in your machine learning models effectively explore the metrics used when classes are imbalanced understand how and whe

this book provides a perspective on the application of machine learning based methods in knowledge discovery from natural languages texts by analysing various data sets conclusions which are not normally evident emerge and can be

used for various purposes and applications the book provides explanations of principles of time proven machine learning algorithms applied in text mining together with step by step demonstrations of how to reveal the semantic contents in real world datasets using the popular r language with its implemented machine learning algorithms the book is not only aimed at it specialists but is meant for a wider audience that needs to process big sets of text documents and has basic knowledge of the subject e g e mail service providers online shoppers librarians etc the book starts with an introduction to text based natural language data processing and its goals and problems it focuses on machine learning presenting various algorithms with their use and possibilities and reviews the positives and negatives beginning with the initial data pre processing a reader can follow the steps provided in the r language including the subsuming of various available plug ins into the resulting software tool a big advantage is that r also contains many libraries implementing machine learning algorithms so a reader can concentrate on the principal target without the need to implement the details of the algorithms her or himself to make sense of the results the book also provides explanations of the algorithms which supports the final evaluation and interpretation of the results the examples are demonstrated using realworld data from commonly accessible internet sources

artificial intelligence ai when incorporated with machine learning and deep learning algorithms has a wide variety of applications today this book focuses on the implementation of various elementary and advanced approaches in ai that can be used in various domains to solve real time decision making problems the book focuses on concepts and techniques used to run tasks in an automated manner it discusses computational intelligence in the detection and diagnosis of clinical and biomedical images covers the automation of a system through machine learning and deep learning approaches presents data analytics and mining for decision support applications and includes case based reasoning natural language processing computer vision and ai approaches in real time applications academic scientists researchers and students in the various domains of computer science engineering electronics and communication engineering and information technology as well as industrial engineers biomedical engineers and management will find this book useful by the end of this book you will understand the fundamentals of ai various case studies will develop your adaptive thinking to solve real time ai problems features includes ai based decision making approaches discusses computational intelligence in the detection and diagnosis of clinical and biomedical images covers automation of systems through machine learning approaches and its implications to the real world presents data analytics and mining for decision support applications offers case based reasoning

book description artificial intelligence ai is a popular area with an emphasis on creating intelligent machines that can reason evaluate and understand the same way as humans it is used extensively across many fields such as image recognition robotics language processing healthcare finance and more hands on artificial intelligence with tensorflow gives you a rundown of essential ai concepts and their implementation with tensorflow also highlighting different approaches to solving ai problems using machine learning and deep learning techniques in addition to this the book covers advanced concepts such as reinforcement learning generative adversarial networks gans and multimodal learning once you have grasped all this you II move on to exploring gpu computing and neuromorphic computing along with the latest trends in quantum computing you II work through case studies that will help you examine ai applications in the important areas of computer vision healthcare and fintech and analyze their datasets in the concluding chapters you II briefly investigate possible developments in ai that we can expect to see in the future by the end of this book you will be well versed with the essential concepts of ai and their implementation using tensorflow what you will learn explore the core concepts of ai and its different approaches use the tensorflow framework for smart applications implement various machine and deep learning algorithms with tensorflow design self learning rl systems and implement generative models perform gpu computing efficiently using best practices build enterprise grade apps for computer vision nlp and healthcare who this book is for hands on artificial intelligence with tensorflow is for you if you are a machine learning developer data scientist ai researcher or anyone who wants to build artificial intelligence applications

using tensorflow you need to have some working knowledge of machine learning to get the most out of this book

examine the latest technological advancements in building a scalable machine learning model with big data using r this second edition shows you how to work with a machine learning algorithm and use it to build a ml model from raw data you will see how to use r programming with tensorflow thus avoiding the effort of learning python if you are only comfortable with r as in the first edition the authors have kept the fine balance of theory and application of machine learning through various real world use cases which gives you a comprehensive collection of topics in machine learning new chapters in this edition cover time series models and deep learning what you ll learn understand machine learning algorithms using r master the process of building machine learning models cover the theoretical foundations of machine learning algorithms see industry focused real world use cases tackle time series modeling in r apply deep learning using keras and tensorflow in r who this book is for data scientists data science professionals and researchers in academia who want to understand the nuances of machine learning approaches algorithms in practice using r

descriptionthis book provides the concept of machine learning with mathematical explanation and programming examples every chapter starts with fundamentals of the technique and working example on the real world dataset along with the advice on applying algorithms each technique is provided with advantages and disadvantages on the data in this book we provide code examples in python python is the most suitable and worldwide accepted language for this first it is free and open source it contains very good support from open community it contains a lot of library so you don't need to code everything also it is scalable for large amount of data and suitable for big data technologies this book covers all major areas in machine learning topics are discussed with graphical explanations comparison of different machine learning methods to solve any problem methods to handle real world noisy data before applying any machine learning algorithm python code example for each concept discussed jupyter notebook scripts are provided with dataset used to test and try the algorithms contentsintroduction to machine learning understanding python feature engineering data visualisation basic and advanced regression techniques classification un supervised learning text analysisneural network and deep learning recommendation system time series analysis

supercharge the value of your machine learning models by building scalable and robust solutions that can serve them in production environments key features explore hyperparameter optimization and model management tools learn object oriented programming and functional programming in python to build your own ml libraries and packages explore key ml engineering patterns like microservices and the extract transform machine learn etml pattern with use cases book descriptionmachine learning engineering is a thriving discipline at the interface of software development and machine learning this book will help developers working with machine learning and python to put their knowledge to work and create high quality machine learning products and services machine learning engineering with python takes a hands on approach to help you get to grips with essential technical concepts implementation patterns and development methodologies to have you up and running in no time you ll begin by understanding key steps of the machine learning development life cycle before moving on to practical illustrations and getting to grips with building and deploying robust machine learning solutions as you advance you ll explore how to create your own toolsets for training and deployment across all your projects in a consistent way the book will also help you get hands on with deployment architectures and discover methods for scaling up your solutions while building a solid understanding of how to use cloud based tools effectively finally you ll work through examples to help you solve typical business problems by the end of this book you ll be able to build end to end machine learning services using a variety of techniques and design your own processes for consistently performant machine learning engineering what you will learn find out what an effective ml engineering process looks like uncover options for automating training and deployment and learn how to use them discover how to build your own wrapper libraries for encapsulating your data

machine learning logic and solutions understand what aspects of software engineering you can bring to machine learning gain insights into adapting software engineering for machine learning using appropriate cloud technologies perform hyperparameter tuning in a relatively automated way who this book is for this book is for machine learning engineers data scientists and software developers who want to build robust software solutions with machine learning components if you re someone who manages or wants to understand the production life cycle of these systems you ll find this book useful intermediate level knowledge of python is necessary

a wide ranging overview of the use of machine learning and ai techniques in financial risk management including practical advice for implementation risk modeling practical applications of artificial intelligence machine learning and deep learning introduces readers to the use of innovative ai technologies for forecasting and evaluating financial risks providing up to date coverage of the practical application of current modelling techniques in risk management this real world guide also explores new opportunities and challenges associated with implementing machine learning and artificial intelligence ai into the risk management process authors terisa roberts and stephen tonna provide readers with a clear understanding about the strengths and weaknesses of machine learning and ai while explaining how they can be applied to both everyday risk management problems and to evaluate the financial impact of extreme events such as global pandemics and changes in climate throughout the text the authors clarify misconceptions about the use of machine learning and ai techniques using clear explanations while offering step by step advice for implementing the technologies into an organization s risk management model governance framework this authoritative volume highlights the use of machine learning and ai in identifying procedures for avoiding or minimizing financial risk discusses practical tools for assessing bias and interpretability of resultant models developed with machine learning algorithms and techniques covers the basic principles and nuances of feature engineering and common machine learning algorithms illustrates how risk modeling is incorporating machine learning and ai techniques to rapidly consume complex data and address current gaps in the end to end modelling lifecycle explains how proprietary software and open source languages can be combined to deliver the best of both worlds for risk models and risk practitioners risk modeling practical applications of artificial intelligence machine learning and deep l

machine learning ml and deep learning dl algorithms are invaluable resources for industry 4 0 and allied areas and are considered as the future of computing a subfield called neural networks to recognize and understand patterns in data helps a machine carry out tasks in a manner similar to humans the intelligent models developed using ml and dl are effectively designed and are fully investigated bringing in practical applications in many fields such as health care agriculture and security these algorithms can only be successfully applied in the context of data computing and analysis today ml and dl have created conditions for potential developments in detection and prediction apart from these domains ml and dl are found useful in analysing the social behaviour of humans with the advancements in the amount and type of data available for use it became necessary to build a means to process the data and that is where deep neural networks prove their importance these networks are capable of handling a large amount of data in such fields as finance and images this book also exploits key applications in industry 4 0 including fundamental models issues and challenges in ml and dl comprehensive analyses and probabilistic approaches for ml and dl various applications in healthcare predictions such as mental health cancer thyroid disease lifestyle disease and cardiac arrhythmia industry 4 0 applications such as facial recognition feather classification water stress prediction deforestation control tourism and social networking security aspects of industry 4 0 applications suggest remedial actions against possible attacks and prediction of associated risks information is presented in an accessible way for students researchers and scientists business innovators and entrepreneurs sustainable assessment and management professionals this book equips readers with a knowledge of data analytics ml and dl techniques for applications defined under the umbrella of industry 4 0 this book offers comprehensive coverage promising ideas

development of ml and dl approaches by applying intelligence in various applications

hands on ml problem solving and creating solutions using python key features introduction to python programming python for machine learning introduction to machine learning introduction to predictive modelling supervised and unsupervised algorithms linear regression logistic regression and support vector machinesê descriptionê you will learn about the fundamentals of machine learning algorithms and the difference between them Ê we will focus on learning supervised machine learning algorithms covering linear regression logistic regression support vector machines decision trees and artificial neural networks for each of these algorithms you will work hands on with open source datasets and use python programming to program the machine learning algorithms you will learn about cleaning the data and optimizing the features to get the best results out of your machine learning model you will learn about the various parameters that determine the accuracy of your model and how you can tune your model based on the reflection of these parameters what will you learn get a clear vision of what is machine learning and get familiar with the foundation principles of machine learning understand the python language specific libraries available for machine learning and be able to work with those libraries explore the different supervised learning based algorithms in machine learning and know how to implement them when a real time use case is presented to you have hands on with data exploration data cleaning data preprocessing and model implementation get to know the basics of deep learning and some interesting algorithms in this space choose the right model based on your problem statement and work with cda techniques to get good accuracy on your model who this book is for this book is for anyone interested in understanding machine learning beginners machine learning engineers and data scientists who want to get familiar with supervised learning algorithms will find this book helpful table of contents £1 Êintroduction to python pro

this book is intended for academic and industrial developers exploring and developing applications in the area of big data and machine learning including those that are solving technology requirements evaluation of methodology advances and algorithm demonstrations the intent of this book is to provide awareness of algorithms used for machine learning and big data in the academic and professional community the 17 chapters are divided into 5 sections theoretical fundamentals big data and pattern recognition machine learning algorithms applications machine learning s next frontier and hands on and case study while it dwells on the foundations of machine learning and big data as a part of analytics it also focuses on contemporary topics for research and development in this regard the book covers machine learning algorithms and their modern applications in developing automated systems subjects covered in detail include mathematical foundations of machine learning with various examples an empirical study of supervised learning algorithms like naïve bayes knn and semi supervised learning algorithms viz s3vm graph based multiview precise study on unsupervised learning algorithms like gmm k mean clustering dritchlet process mixture model x means and reinforcement learning algorithm with q learning to learning to learning and so forth hands on machine learning open source tools viz apache mahout h2o case studies for readers to analyze the prescribed cases and present their solutions or interpretations with intrusion detection in manets using machine learning showcase on novel user cases implications of electronic governance as well as pragmatic study of bd ml technologies for agriculture healthcare social media industry banking insurance and so on

this book explores the benefits of deploying machine learning ml and artificial intelligence at in the health care environment the authors study different research directions that are working to serve challenges faced in building strong healthcare infrastructure with respect to the pandemic crisis the authors take note of obstacles faced in the rush to develop and alter technologies during the covid crisis they study what can be learned from them and what can be leveraged efficiently the authors aim to show how healthcare providers can use technology to exploit advances in machine learning and deep learning in their own applications topics include remote patient monitoring data analysis of human behavioral patterns and machine learning for decision making in real time

this book is a comprehensive review of technologies and data in healthcare services it features a compilation of 10 chapters that inform readers about the recent research and developments in this field each chapter focuses on a specific aspect of healthcare services highlighting the potential impact of technology on enhancing practices and outcomes the main features of the book include 1 referenced contributions from healthcare and data analytics experts 2 a broad range of topics that cover healthcare services and 3 demonstration of deep learning techniques for specific diseases key topics federated learning in analysis of sensitive healthcare data while preserving privacy and security artificial intelligence for 3 d bone image reconstruction detection of disease severity and creating personalized treatment plans using machine learning and software tools case studies for disease detection methods for different disease and conditions including dementia asthma eye diseases brain computer interfaces data mining for standardized electronic health records data collection management and analysis in epidemiological research the book is a resource for learners and professionals in healthcare service training programs and health administration departments

the purpose of this book is to provide an up to date and systematical introduction to the principles and algorithms of machine learning the definition of learning is broad enough to include most tasks that we commonly call learning tasks as we use the word in daily life it is also broad enough to encompass computers that improve from experience in quite straightforward ways the book will be of interest to industrial engineers and scientists as well as academics who wish to pursue machine learning the book is intended for both graduate and postgraduate students in fields such as computer science cybernetics system sciences engineering statistics and social sciences and as a reference for software professionals and practitioners the wide scope of the book provides a good introduction to many approaches of machine learning and it is also the source of useful bibliographical information

a step by step guide to build machine learning and nlp models using google automl key features£ understand the basic concepts of machine learning and natural language processing understand the basic concepts of google automl ai platform and tensorflow explore the google automl natural language service understand how to implement nlp models like issue categorization systems using automl understand how to release the features of automl models as rest apis for other applications understand how to implement the nlp models using the google ai platform descriptionÊÉ google automl and ai platform provide an innovative way to build an ai based system with less effort in this book you will learn about the basic concepts of machine learning and natural language processing you will also learn about the google ai services such as automl ai platform and tensorflow googleÕs deep learning library along with some practical examples using these services in real life scenarios you will also learn how the automl natural language service and ai platform can be used to build nlp and machine learning models and how their features can be released as rest apis for other applications in this book you will also learn the usage of googleÕs bigquery dataprep and dataproc for building an end to end machine learning pipeline Ê this book will give you an in depth knowledge of google automl and ai platform by implementing real life examples such as the issue categorization system sentiment analysis and loan default prediction system this book is relevant to the developers cloud enthusiasts and cloud architects at the beginner and

intermediate levels what you will learn by the end of this book you will learn how google automl ai platform bigquery dataprep and dapaproc can be used to build an end to end machine learning pipeline you will also learn how different types of ai problems can be solved using these google ai services a step by step implementation of some common nlp problems such as the issue categorization system and sentiment analysis system that provide you with hands on experience in building complex ai based systems by easily leveraging the gep ai services Ê who is this book forÊ this book is for machine learning engineers nlp users and data professionals who want to develop and streamline their ml models and put them into production using google ai services prior knowledge of python programming and the basics of machine learning would be preferred table of contents 1 introduction to artificial intelligence 2 introducing the google cloud platform 3 automl natural language 4 google ai platform 5 google data analysis preparation and processing services author bioÊ navin sabharwal navin is an innovator leader author and consultant in ai and machine learning cloud computing big data analytics software product development engineering and r d he has authored books on technologies such as gep aws azure ai and machine learning systems ibm watson chef gke containers and microservices he is reachable at navinsabharwal gmail com amit agrawal amit holds a master of degree in computer science and engineering from mnnit motilal nehru national institute of technology allahabad one of the premier institutes of engineering in india he is working as a principal data scientist and researcher delivering solutions in the fields of ai and machine learning he is responsible for designing end to end solutions and architecture for enterprise products he is reachable at agrawal amit 24 gmail com

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this book explores the transformative effects of ai and ml on software engineering it emphasizes the potential of cutting edge software development technologies such as generative ai and ml applications this book incorporates data

driven strategies across the entire software development life cycle from requirements elicitation and design to coding testing and deployment it illustrates the evolution from traditional frameworks to agile and devops methodologies the potential of generative ai for automating repetitive tasks and enhancing code quality is highlighted along with ml applications in optimizing testing effort estimation design pattern recognition fault prediction debugging and security through anomaly detection these techniques have significantly improved software development efficiency predictability and project management effectiveness while remarkable progress has been made much remains to be done in this evolving area this edited book is a timely effort toward advancing the field and promoting interdisciplinary collaboration in addressing ethical security and technical challenges

a step by step guide to get started with machine learning key features understand different types of machine learning like supervised unsupervised semi supervised and reinforcement learning learn how to implement machine learning algorithms effectively and efficiently get familiar with the various libraries tools for machine learning description should i choose supervised learning or reinforcement learning which algorithm is best suited for my application how does deep learning advance the capacities of problem solving if you have found yourself asking these questions this book is specially developed for you the book will help readers understand the core concepts of machine learning and techniques to evaluate any machine learning model with ease the book starts with the importance of machine learning by analyzing its impact on the global landscape the book also covers supervised and unsupervised ml along with reinforcement learning in subsequent chapters the book explores these topics in even greater depth evaluating the pros and cons of each and exploring important topics such as bias variance tradeoff clustering and dimensionality reduction the book also explains model evaluation techniques such as cross validation and gridsearchev the book also features mind maps which help enhance the learning process by making it easier to learn and retain information this book is a one stop solution for covering basic ml concepts in detail and the perfect stepping stone to becoming an expert in ml and deep learning and even applying them to different professions what you will learn understand important concepts to fully grasp the idea of supervised learning get familiar with the basics of unsupervised learning and some of its algorithms learn how to analyze the performance of your machine learning models explore the different methodologies of reinforcement learning learn how to implement different types of neural networks who this book is for this book is for this book is aimed at those who are new to machine learning 4 m

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Introduction

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