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Machine Learning A-Z™: Hands-On Python & R In Data Science

Machine Learning A Z Hands On Python R In Udemy

Roman Wölfel



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Confident Data Skills Kirill Eremenko, 2018-01-03 Data has dramatically changed how our world works From entertainment to politics from technology to advertising and from science to the business world understanding and using data is now one of the most transferable and transferable skills out there Learning how to work with data may seem intimidating or difficult but with Confident Data Skills you will be able to master the fundamentals and supercharge your professional abilities This essential book covers data mining preparing data analysing data communicating data financial modelling visualizing insights and presenting data through film making and dynamic simulations In depth international case studies from a wide range of organizations including Netflix LinkedIn Goodreads Deep Blue Alpha Go and Mike s Hard Lemonade Co show successful data techniques in practice and inspire you to turn knowledge into innovation Confident Data Skills also provides insightful guidance on how you can use data skills to enhance your employability and improve how your industry or company works through your data skills Expert author and instructor Kirill Eremenko is committed to making the complex simple and inspiring you to have the confidence to develop an understanding adeptness and love of data **Data**

Analytics in the Era of the Industrial Internet of Things Aldo Dagnino, 2021-02-05 This book presents the characteristics and benefits industrial organizations can reap from the Industrial Internet of Things IIoT These characteristics and benefits include enhanced competitiveness increased proactive decision making improved creativity and innovation augmented job creation heightened agility to respond to continuously changing challenges and intensified data driven decision making In a straightforward fashion the book also helps readers understand complex concepts that are core to IIoT enterprises such as Big Data analytic architecture platforms machine learning ML and data science algorithms and the power of visualization to enrich the domains experts decision making The book also guides the reader on how to think about ways to define new business paradigms that the IIoT facilitates as well how to increase the probability of success in managing analytic projects that are the core engine of decision making in the IIoT enterprise The book starts by defining an IIoT enterprise and the framework used to efficiently operate A description of the concepts of industrial analytics which is a major engine for decision making in the IIoT enterprise is provided It then discusses how data and machine learning ML play an important role in increasing the competitiveness of industrial enterprises that operate using the IIoT technology and business concepts Real world examples of data driven IIoT enterprises and various business models are presented and a discussion on how the use of ML and data science help address complex decision making problems and generate new job opportunities The book presents in an easy to understand manner how ML algorithms work and operate on data generated in the IIoT enterprise Useful for any industry professional interested in advanced industrial software applications including business managers and professionals interested in how data analytics can help industries and to develop innovative business solutions as well as data and computer scientists who wish to bridge the analytics and computer science fields with the

industrial world and project managers interested in managing advanced analytic projects

Biomedical Imaging Ankur Gogoi, Nirmal Mazumder, 2024-09-26 This book presents the rapidly developing field of artificial intelligence and machine learning and its application in biomedical imaging. As is known, starting from the diagnosis of fractures by using X-rays to understanding the complex structure and function of the brain, biomedical imaging has contributed immensely toward the development of precision diagnosis and treatment strategies for numerous diseases. While continuous evolution in imaging technologies has enabled the acquisition of images having resolution and contrast far better than ever, it significantly increased the volume of data associated with each image scan, making it increasingly difficult for experts to analyze and interpret. In this context, the application of artificial intelligence (AI) and machine learning (ML) tools has become one of the most exciting frontlines of contemporary research in biomedical imaging due to their capability to extract minute traces of various disease signatures from large and complicated datasets and providing clear insight into the potential abnormalities with excellent accuracy, sensitivity, and specificity. The hallmark of this book will be the contributions from international leaders on different AI-aided advanced biomedical imaging modalities and techniques. Included will be comprehensive description of several of the technology-driven spectacular advances made over the past few years that have allowed early detection and delineation of abnormalities with sub-pixel image segmentation and classification. Starting from the fundamentals of biomedical image processing, the book presents a streamlined and focused coverage of the core principles, theoretical and experimental approaches, and state-of-the-art applications of most of the currently used biomedical imaging techniques powered by AI.

Python Machine Learning By Example Yuxi (Hayden) Liu, 2019-02-28 Grasp machine learning concepts, techniques, and algorithms with the help of real-world examples using Python libraries such as TensorFlow and scikit-learn. Key Features: Exploit the power of Python to explore the world of data mining and data analytics. Discover machine learning algorithms to solve complex challenges faced by data scientists today. Use Python libraries such as TensorFlow and Keras to create smart cognitive actions for your projects. Book Description: The surge in interest in machine learning (ML) is due to the fact that it revolutionizes automation by learning patterns in data and using them to make predictions and decisions. If you're interested in ML, this book will serve as your entry point to ML. *Python Machine Learning By Example* begins with an introduction to important ML concepts and implementations using Python libraries. Each chapter of the book walks you through an industry-adopted application. You'll implement ML techniques in areas such as exploratory data analysis, feature engineering, and natural language processing (NLP) in a clear and easy-to-follow way. With the help of this extended and updated edition, you'll understand how to tackle data-driven problems and implement your solutions with the powerful yet simple Python language and popular Python packages and tools such as TensorFlow, scikit-learn, gensim, and Keras. To aid your understanding of popular ML algorithms, the book covers interesting and easy-to-follow examples such as news topic modeling and classification, spam email detection, stock price forecasting, and more. By the end of the book, you'll

have put together a broad picture of the ML ecosystem and will be well versed with the best practices of applying ML techniques to make the most out of new opportunities

What you will learn

- Understand the important concepts in machine learning and data science
- Use Python to explore the world of data mining and analytics
- Scale up model training using varied data complexities with Apache Spark
- Delve deep into text and NLP using Python libraries such as NLTK and gensim
- Select and build an ML model and evaluate and optimize its performance
- Implement ML algorithms from scratch in Python TensorFlow and scikit learn

Who this book is for

If you're a machine learning aspirant data analyst or data engineer highly passionate about machine learning and want to begin working on ML assignments this book is for you

Prior knowledge of Python coding is assumed and basic familiarity with statistical concepts will be beneficial although not necessary

Data Science for Beginners

Russel R Russo, 2020-02-02

Are you fascinated by Data Science but it seems too complicated? Do you want to learn everything about Artificial Intelligence but it looks like it is an exclusive club? If this is you please keep reading you are in the right place looking at the right book

Since you are reading these lines you have probably already noticed this Artificial Intelligence is all around you

- Your smartphone that suggests you the next word you want to type
- Your Netflix account that recommends you the series you may like
- or Spotify's personalised playlists

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And these examples are only the surface of this technological revolution

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In Data Science for Beginners you will discover

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- The smartest way to approach Machine Learning
- What libraries are and which one is the best for you
- Tips and tricks for a smooth and painless journey into artificial intelligence
- Why decision tree is the way
- The TensorFlow parts that are going to make your coding life easy
- Why python is the best language for Machine Learning
- How to bring your ideas into a computer
- How to talk with deep neural networks
- How to deal with variables and data
- The most common myths about Machine Learning debunked

Even If you don't know anything about programming understanding Data Science is the ideal place to start

Still if you already know something about programming but not about how to apply it to Artificial Intelligence Data Science is what you want to understand

Download now Data

Science for Beginners to start your path of Artificial Intelligence **Machine Learning with Python** Russel R

Russo,2019-11-19 Are you fascinated by Machine Learning but it seems too complicated Do you have some coding skills but you want to go deeper in Python and Machine Learning If this is you please keep reading you are in the right place looking at the right book Since you are reading this you are probably aware of how important Artificial Intelligence is in these days In your everyday life Artificial Intelligence is all around you Every time you buy a product on Amazon follow a new profile on Instagram listen to a song on Spotify or reserve a room on Booking they are learning something out of your behavior And these are just the most visible aspects of how Machine Learning is having an impact on our lives Everyone knows well almost everyone how important Machine Learning is for the growth and success of the biggest tech companies and many people know about the Machine Learning impact in science medicine and statistics Also it is quite commonly known that Artificial Intelligence Machine Learning and the mastering of their most important language Python can offer a lot of possibilities in work and business And you yourself are probably thinking I surely can see that opportunity but how can I seize it Well if you kept reading so far you are on the right track to answer your question In Machine Learning with Python you will find Why python is the best language for Machine Learning How to bring your ideas into a computer The smartest way to approach Machine Learning How to deal with variables and data Tips and tricks for a smooth and painless journey into artificial intelligence The most common myths about Machine Learning debunked So whether you decided to start now or to go deeper into Artificial Intelligence Machine Learning and Python Programming you will only have two unanswered questions right now what is the best way to do it And when is the best time to start An easy clear and complete guide as Machine Learning with Python is the answer to your first question and about the second one well that s an easy one the best time is NOW Download Machine Learning with Python now and start mastering the secrets of Artificial Intelligence Scroll to the top of the page and click the BUY NOW button *Hands-On Deep Learning Architectures with Python* Yuxi (Hayden)

Liu,Saransh Mehta,2019-04-30 Concepts tools and techniques to explore deep learning architectures and methodologies Key FeaturesExplore advanced deep learning architectures using various datasets and frameworksImplement deep architectures for neural network models such as CNN RNN GAN and many moreDiscover design patterns and different challenges for various deep learning architecturesBook Description Deep learning architectures are composed of multilevel nonlinear operations that represent high level abstractions this allows you to learn useful feature representations from the data This book will help you learn and implement deep learning architectures to resolve various deep learning research problems Hands On Deep Learning Architectures with Python explains the essential learning algorithms used for deep and shallow architectures Packed with practical implementations and ideas to help you build efficient artificial intelligence systems AI this book will help you learn how neural networks play a major role in building deep architectures You will understand various deep learning architectures such as AlexNet VGG Net GoogleNet with easy to follow code and diagrams In addition to

this the book will also guide you in building and training various deep architectures such as the Boltzmann mechanism autoencoders convolutional neural networks CNNs recurrent neural networks RNNs natural language processing NLP GAN and more all with practical implementations By the end of this book you will be able to construct deep models using popular frameworks and datasets with the required design patterns for each architecture You will be ready to explore the potential of deep architectures in today s world What you will learn Implement CNNs RNNs and other commonly used architectures with Python Explore architectures such as VGGNet AlexNet and GoogLeNet Build deep learning architectures for AI applications such as face and image recognition fraud detection and many more Understand the architectures and applications of Boltzmann machines and autoencoders with concrete examples Master artificial intelligence and neural network concepts and apply them to your architecture Understand deep learning architectures for mobile and embedded systems Who this book is for If you re a data scientist machine learning developer engineer or deep learning practitioner or are curious about AI and want to upgrade your knowledge of various deep learning architectures this book will appeal to you You are expected to have some knowledge of statistics and machine learning algorithms to get the best out of this book

Python Programming
Russel R Russo, 2020-02-02

Are you fascinated by Artificial Intelligence but you think it would be too difficult for you to learn Or maybe you do have some coding skills but you want to go deeper in Python and Neural Networks If you think that this is something that may have a huge impact on your life please keep reading because you are right it is Neural Networks and Artificial Intelligence are the present and even more the future of technology and you want to be part of it well you are in the right place and you are looking at the right book Artificial Intelligence is the secret behind the big ones like Google Facebook and Amazon everybody knows it But it can also be a powerful tool in your own hands With this book you will prepare the ground for your future success either if you want to start up your own AI enterprise apply your knowledge to your current business or find a job at the greatest and most innovative companies If programming will open you many doors Python programming will open you even more With Python Programming you will discover The smartest way to interact with Python How to Code your first application The types and components of Neural Networks The elements of Python you will actually need The three Vs of Big Data plus two new Vs The easiest path among Python data statements classes and objects How algorithms will help you making predictions How not to get lost in coding The three most common problems with Neural Networks and how to overcome them How to build a complete program The more effective way to use classes files and functions Even if you don t know anything about programming Python is the perfect place to start right now Still if you already have some programming skills but you want to know more about how to apply it in Artificial Intelligence Python Programming and Neural Networks are the next thing you want to learn And this book is the best way to do it Since you read all the way over here you know what we are talking about still you will probably have some questions in mind too like Is this for me Is this something I can learn And once I have learned it can I also use it in everyday business or is it just something

about the big ones Well the answer is YES YES this is for you if you want to YES you can learn it if you commit to YES you can use it for your own business but it can also open you many doors in finding a great job Get your copy of Python Programming now to get the best start for your journey to Artificial Intelligence Scroll to the top of the page and click the BUY NOW button *Python Programming* Russel R Russo,2021-02-05 Are you fascinated by Artificial Intelligence but you think it would be too difficult for you to learn Or maybe you do have some coding skills but you want to go deeper in Python and Neural Networks Neural Networks and Artificial Intelligence are the present and even more the future of technology and you want to be part of it well you are in the right place and you are looking at the right book Artificial Intelligence is the secret behind the big ones like Google Facebook and Amazon everybody knows it But it can also be a powerful tool in your own hands With Python Programming you will discover The smartest way to interact with Python How to Code your first application The types and components of Neural Networks The elements of Python you will actually need The three Vs of Big Data plus two new Vs The easiest path among Python data statements classes and objects How algorithms will help you making predictions How not to get lost in coding The three most common problems with Neural Networks and how to overcome them How to build a complete program The more effective way to use classes files and functions Even if you don't know anything about programming Python is the perfect place to start right now Still if you already have some programming skills but you want to know more about how to apply it in Artificial Intelligence Python Programming and Neural Networks are the next thing you want to learn And this book is the best way to do it Get your copy of Python Programming now to get the best start for your journey to Artificial Intelligence **Python Machine Learning** Wei-Meng Lee,2019-04-04 Python makes machine learning easy for beginners and experienced developers With computing power increasing exponentially and costs decreasing at the same time there is no better time to learn machine learning using Python Machine learning tasks that once required enormous processing power are now possible on desktop machines However machine learning is not for the faint of heart it requires a good foundation in statistics as well as programming knowledge Python Machine Learning will help coders of all levels master one of the most in demand programming skillsets in use today Readers will get started by following fundamental topics such as an introduction to Machine Learning and Data Science For each learning algorithm readers will use a real life scenario to show how Python is used to solve the problem at hand Python data science manipulating data and data visualization Data cleansing Understanding Machine learning algorithms Supervised learning algorithms Unsupervised learning algorithms Deploying machine learning models Python Machine Learning is essential reading for students developers or anyone with a keen interest in taking their coding skills to the next level *Hands-On Transfer Learning with Python* Dipanjan Sarkar,Raghav Bali,Tamoghna Ghosh,2018-08-31 Deep learning simplified by taking supervised unsupervised and reinforcement learning to the next level using the Python ecosystem Key Features Build deep learning models with transfer learning principles in Python implement transfer learning to solve real world research

problems Perform complex operations such as image captioning neural style transfer Book Description Transfer learning is a machine learning ML technique where knowledge gained during training a set of problems can be used to solve other similar problems The purpose of this book is two fold firstly we focus on detailed coverage of deep learning DL and transfer learning comparing and contrasting the two with easy to follow concepts and examples The second area of focus is real world examples and research problems using TensorFlow Keras and the Python ecosystem with hands on examples The book starts with the key essential concepts of ML and DL followed by depiction and coverage of important DL architectures such as convolutional neural networks CNNs deep neural networks DNNs recurrent neural networks RNNs long short term memory LSTM and capsule networks Our focus then shifts to transfer learning concepts such as model freezing fine tuning pre trained models including VGG inception ResNet and how these systems perform better than DL models with practical examples In the concluding chapters we will focus on a multitude of real world case studies and problems associated with areas such as computer vision audio analysis and natural language processing NLP By the end of this book you will be able to implement both DL and transfer learning principles in your own systems What you will learn Set up your own DL environment with graphics processing unit GPU and Cloud support Delve into transfer learning principles with ML and DL models Explore various DL architectures including CNN LSTM and capsule networks Learn about data and network representation and loss functions Get to grips with models and strategies in transfer learning Walk through potential challenges in building complex transfer learning models from scratch Explore real world research problems related to computer vision and audio analysis Understand how transfer learning can be leveraged in NLP Who this book is for Hands On Transfer Learning with Python is for data scientists machine learning engineers analysts and developers with an interest in data and applying state of the art transfer learning methodologies to solve tough real world problems Basic proficiency in machine learning and Python is required

Learn Python Programming Russel R Russo,2019-11-06 If you are fascinated by Artificial Intelligence but you don t know where to start If you think that learning Python programming would be cool but you are afraid that it s too hard for you Well then you are in the right place looking at the right book Artificial Intelligence is the secret behind the big ones like Google Facebook Amazon and we all know that But it can also be a powerful tool in your own hands With this book you will prepare the ground for your future success either if you want to start up your own AI enterprise apply your knowledge to your current business or find a job at the greatest and most innovative companies If programming will open you many doors Python programming will open you even more All the topics covered in this book are selected to give you a broad overview on Python programming for you to have a solid first knowledge without being overwhelmed by useless information Your learning process is the main goal of Learn Python Programming then you will find both theory and hands on exercises so you can immediately experience the possibilities of what you are learning With this book you will Learn the smartest way to interact with Python Code your first application Understand the elements of Python

you will actually need Easily find your path among Python data statements classes and objects See how algorithms will help you making predictions Get tips and tricks to prevent you from getting lost in coding Build a complete program Discover the more effective way to use classes files and functions As the ancient Chinese philosopher Lao Tsu said A journey of a thousand miles begins with a single step So even if you don t know anything about coding let Learn Python Programming be the first step of your thousand miles journey Download Learn Python Programming now to start your path of Artificial Intelligence Scroll to the top of the page and click the BUY NOW button

Pro Machine Learning Algorithms V Kishore Ayyadevara,2018-06-30 Bridge the gap between a high level understanding of how an algorithm works and knowing the nuts and bolts to tune your models better This book will give you the confidence and skills when developing all the major machine learning models In Pro Machine Learning Algorithms you will first develop the algorithm in Excel so that you get a practical understanding of all the levers that can be tuned in a model before implementing the models in Python R You will cover all the major algorithms supervised and unsupervised learning which include linear logistic regression k means clustering PCA recommender system decision tree random forest GBM and neural networks You will also be exposed to the latest in deep learning through CNNs RNNs and word2vec for text mining You will be learning not only the algorithms but also the concepts of feature engineering to maximize the performance of a model You will see the theory along with case studies such as sentiment classification fraud detection recommender systems and image recognition so that you get the best of both theory and practice for the vast majority of the machine learning algorithms used in industry Along with learning the algorithms you will also be exposed to running machine learning models on all the major cloud service providers You are expected to have minimal knowledge of statistics software programming and by the end of this book you should be able to work on a machine learning project with confidence What You Will Learn Get an in depth understanding of all the major machine learning and deep learning algorithms Fully appreciate the pitfalls to avoid while building models Implement machine learning algorithms in the cloud Follow a hands on approach through case studies for each algorithm Gain the tricks of ensemble learning to build more accurate models Discover the basics of programming in R Python and the Keras framework for deep learning Who This Book Is For Business analysts IT professionals who want to transition into data science roles Data scientists who want to solidify their knowledge in machine learning

Machine Learning Thomas Farth,2018-11-11 Have you basic knowledge about Machine Learning Copyright 2018 by Thomas Farth All rights reserved Have you completed the book A Beginner s Guide to Machine Learning Now its time to enhance your Machine Learning Knowledge Machine Learning An Intermediate s Guide You will learn Master Machine Learning on Python R Have a Great intuition of many Machine Learning models Make accurate predictions Make powerful analysis Extensive Practice of Python Libraries Regression Classification Handle specific topics like NLP Clustering Deep Learning Description Interested in the field of Machine Learning Then this book is for you The goal of machine learning is to program computers to use example

data or past experience to solve a given problem Many successful applications of machine learning exist already including systems that analyze past sales data to predict customer behavior recognize faces or spoken speech optimize robot behavior so that a task can be completed using minimum resources and extract knowledge from bioinformatics data It would seek to explain common terms and algorithms in an intuitive way The authors used a progressive approach whereby we start out slowly and improve on the complexity of our solutions This book and the accompanying examples you would be well suited to tackle problems which enhance your interests using machine learning The title opens with a general introduction to machine learning from a macro level The second half of the book is more practical and dives into Data Processing Regression Classification Clustering Natural Language Processing and Deep Learning Download your copy now so you can get started on what is promising to be a most amazing future [Practical Machine Learning in R](#) Fred Nwanganga, Mike Chapple, 2020-04-10 Guides professionals and students through the rapidly growing field of machine learning with hands on examples in the popular R programming language Machine learning a branch of Artificial Intelligence AI which enables computers to improve their results and learn new approaches without explicit instructions allows organizations to reveal patterns in their data and incorporate predictive analytics into their decision making process Practical Machine Learning in R provides a hands on approach to solving business problems with intelligent self learning computer algorithms Bestselling author and data analytics experts Fred Nwanganga and Mike Chapple explain what machine learning is demonstrate its organizational benefits and provide hands on examples created in the R programming language A perfect guide for professional self taught learners or students in an introductory machine learning course this reader friendly book illustrates the numerous real world business uses of machine learning approaches Clear and detailed chapters cover data wrangling R programming with the popular RStudio tool classification and regression techniques performance evaluation and more Explores data management techniques including data collection exploration and dimensionality reduction Covers unsupervised learning where readers identify and summarize patterns using approaches such as apriori eclat and clustering Describes the principles behind the Nearest Neighbor Decision Tree and Naive Bayes classification techniques Explains how to evaluate and choose the right model as well as how to improve model performance using ensemble methods such as Random Forest and XGBoost Practical Machine Learning in R is a must have guide for business analysts data scientists and other professionals interested in leveraging the power of AI to solve business problems as well as students and independent learners seeking to enter the field **Machine Learning** Thomas Farth, 2018-10-27 Are you thinking of learning more about Machine Learning For Beginners You will learn Machine Learning Engineers earn on average 166 000 become an ideal candidate with this course Master Machine Learning on Python R Scala Have a great intuition of many Machine Learning models Mathematical Foundation Linear Algebra Multivariate Calculus Probability Theory Make powerful analysis Introduction to Programming Language Tools for Machine Learning Introduction to R Python Scala Introduction to MLlib

Apache Spark Libraries of Python Description Interested in the field of Machine Learning Then this book is for you It would seek to explain common terms and algorithms in an intuitive way The authors used a progressive approach whereby we start out slowly and improve on the complexity of our solutions This book and the accompanying examples you would be well suited to tackle problems which enhance your interests using machine learning The title opens with a general introduction to machine learning from a macro level The second half of the book is more practical and dives into introducing mathematical concepts specific algorithms introduction to programming languages best programming languages for Machine Learning and libraries of Python applied in Machine Learning Download your copy now so you can get started on what is promising to be a most amazing future

Computer Programming - Python Russel R Russo,2020-12-17 If you have always been fascinated by programming for Artificial Intelligence but it always seemed to you like something too hard to learn you are in the right place looking at the right book You surely are well aware of how important Artificial Intelligence is these days Just think about your everyday life Every time you buy a product on Amazon follow a new profile on Instagram listen to a song on Spotify or reserve a room on Booking these platforms are learning something out of your behavior Also it is commonly known that Machine Learning Neural Networks and the mastering of their most important language Python offer nowadays a lot of chances in work and business Either if you want to start up your own enterprise apply your knowledge to your current business or find a job at the greatest and most innovative companies Computer Programming Python will prepare the ground for your future success And that s the reason why we put together three of the most successful Russel R Russo books as Learn Python Programming Neural Networks for Beginners and Machine Learning with Python With Computer Programming Python you will Discover why Python is the best language for Machine Learning Find the smartest way to approach Machine Learning and interact with Python and Neural Networks Get tips and tricks for a smooth and painless journey into artificial intelligence and prevent you from getting lost in coding Debunk the most common myths about Machine Learning Code your first application Understand the elements of Python you will actually need Easily find your path among Python data statements classes and objects See how algorithms and Machine Learning will help you making predictions Learn the smartest way to approach Neural Network Programming Discover why algorithms are your friends Learn about The three Vs of Big Data plus two new Vs Spot the three most common problems with Neural Networks and how to overcome them

Hands-on Supervised Learning with Python Gnana Lakshmi T C,Madeleine Shang,2021-01-06 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 Machines DESCRIPTION You will learn about the fundamentals of Machine Learning and Python programming post which you will be introduced to predictive modelling and the different methodologies in predictive modelling You will be introduced to Supervised Learning algorithms and Unsupervised Learning

algorithms and the difference between them 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 EDA 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

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Machine Learning with R Dominic Lordy,2016-05-27 BUY NOW Will soon return to 25 59 Free eBook for customers who purchase the print book from Amazon

Are you thinking of learning more about Machine Learning using R If you are looking for a complete beginners guide to learn Machine Learning using R in just a few hours this book is for you Machine Learning is the practice of transforming data into knowledge and R is the most popular open source programming language used for Machine Learning In this book we will learn how to use the principles of Machine Learning and the R programming language to answer day to day questions about your data Finally we ll learn how to make predictions with machine learning

From AI Sciences Publisher Our books may be the best one for beginners it s a step by step guide for any person who wants to start learning Artificial Intelligence and Data Science from scratch It will help you in preparing a solid foundation and learn any other high level courses To get the most out of the concepts that would be covered readers are advised to adopt hands on approach which would lead to better mental representations Several Visual Illustrations and Examples Instead of tough math formulas this book contains several graphs and images which detail all important R and Machine Learning concepts and their applications

Target Users The book

designed for a variety of target audiences The most suitable users would include Beginners who want to approach Machine Learning but are too afraid of complex math to start Newbies in computer science techniques and machine learning Professionals in Machine Learning and social sciences Professors lecturers or tutors who are looking to find better ways to explain the content to their students in the simplest and easiest way Students and academicians especially those focusing on Machine Learning

What's Inside This Book Introduction Basic Functions Linear Regression Machine Learning Algorithms Data with R Generating data Graphical functions Programming with R in Practice Opening the Black Box K nearest Neighbors Neural Networks Trees and Forests Standard Linear Model Logistic Regression Support Vector Machine using R

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