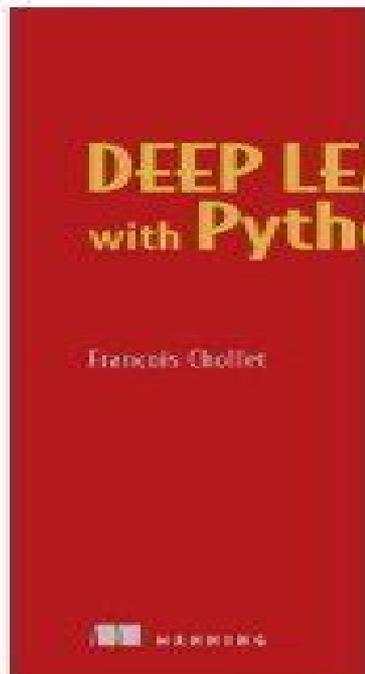


Deep learning with Python

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Deep Reinforcement Learning in Action Alexander Zai, Brandon Brown, 2020-04-28 Summary Humans learn best from feedback we are encouraged to take actions that lead to positive results while deterred by decisions with negative consequences This reinforcement process can be applied to computer programs allowing them to solve more complex problems that classical programming cannot Deep Reinforcement Learning in Action teaches you the fundamental concepts and terminology of deep reinforcement learning along with the practical skills and techniques you ll need to implement it into your own projects Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Deep reinforcement learning AI systems rapidly adapt to new environments a vast improvement over standard neural networks A DRL agent learns like people do taking in raw data such as sensor input and refining its responses and predictions through trial and error About the book Deep Reinforcement Learning in Action teaches you how to program AI agents that adapt and improve based on direct feedback from their environment In this example rich tutorial you ll master foundational and advanced DRL techniques by taking on interesting challenges like navigating a maze and playing video games Along the way you ll work with core algorithms including deep Q networks and policy gradients along with industry standard tools like PyTorch and OpenAI Gym What s inside Building and training DRL networks The most popular DRL algorithms for learning and problem solving Evolutionary algorithms for curiosity and multi agent learning All examples available as Jupyter Notebooks About the reader For readers with intermediate skills in Python and deep learning About the author Alexander Zai is a machine learning engineer at Amazon AI Brandon Brown is a machine learning and data analysis blogger Table of Contents PART 1 FOUNDATIONS 1 What is reinforcement learning 2 Modeling reinforcement learning problems Markov decision processes 3 Predicting the best states and actions Deep Q networks 4 Learning to pick the best policy Policy gradient methods 5 Tackling more complex problems with actor critic methods PART 2 ABOVE AND BEYOND 6 Alternative optimization methods Evolutionary algorithms 7 Distributional DQN Getting the full story 8 Curiosity driven exploration 9 Multi agent reinforcement learning 10 Interpretable reinforcement learning Attention and relational models 11 In conclusion A review and roadmap *Machine Learning Engineering with Python* Andrew P.

McMahon, 2023-08-31 Transform your machine learning projects into successful deployments with this practical guide on how to build and scale solutions that solve real world problems Includes a new chapter on generative AI and large language models LLMs and building a pipeline that leverages LLMs using LangChain Key Features This second edition delves deeper into key machine learning topics CI CD and system design Explore core MLOps practices such as model management and performance monitoring Build end to end examples of deployable ML microservices and pipelines using AWS and open source tools Book Description The Second Edition of *Machine Learning Engineering with Python* is the practical guide that MLOps and ML engineers need to build solutions to real world problems It will provide you with the skills you need to stay

ahead in this rapidly evolving field The book takes an examples based approach to help you develop your skills and covers the technical concepts implementation patterns and development methodologies you need You ll explore the key steps of the ML development lifecycle and create your own standardized model factory for training and retraining of models You ll learn to employ concepts like CI CD and how to detect different types of drift Get hands on with the latest in deployment architectures and discover methods for scaling up your solutions This edition goes deeper in all aspects of ML engineering and MLOps with emphasis on the latest open source and cloud based technologies This includes a completely revamped approach to advanced pipelining and orchestration techniques With a new chapter on deep learning generative AI and LLMOps you will learn to use tools like LangChain PyTorch and Hugging Face to leverage LLMs for supercharged analysis You will explore AI assistants like GitHub Copilot to become more productive then dive deep into the engineering considerations of working with deep learning What you will learn Plan and manage end to end ML development projects Explore deep learning LLMs and LLMOps to leverage generative AI Use Python to package your ML tools and scale up your solutions Get to grips with Apache Spark Kubernetes and Ray Build and run ML pipelines with Apache Airflow ZenML and Kubeflow Detect drift and build retraining mechanisms into your solutions Improve error handling with control flows and vulnerability scanning Host and build ML microservices and batch processes running on AWS Who this book is for This book is designed for MLOps and ML engineers data scientists and software developers who want to build robust solutions that use machine learning to solve real world problems If you re not a developer but want to manage or understand the product lifecycle of these systems you ll also find this book useful It assumes a basic knowledge of machine learning concepts and intermediate programming experience in Python With its focus on practical skills and real world examples this book is an essential resource for anyone looking to advance their machine learning engineering career

Python Machine Learning
Sebastian Raschka, Vahid Mirjalili, 2019-12-12 Applied machine learning with a solid foundation in theory Revised and expanded for TensorFlow 2 GANs and reinforcement learning Purchase of the print or Kindle book includes a free eBook in the PDF format Key Features Third edition of the bestselling widely acclaimed Python machine learning book Clear and intuitive explanations take you deep into the theory and practice of Python machine learning Fully updated and expanded to cover TensorFlow 2 Generative Adversarial Network models reinforcement learning and best practices Book Description Python Machine Learning Third Edition is a comprehensive guide to machine learning and deep learning with Python It acts as both a step by step tutorial and a reference you ll keep coming back to as you build your machine learning systems Packed with clear explanations visualizations and working examples the book covers all the essential machine learning techniques in depth While some books teach you only to follow instructions with this machine learning book Raschka and Mirjalili teach the principles behind machine learning allowing you to build models and applications for yourself Updated for TensorFlow 2 0 this new third edition introduces readers to its new Keras API features as well as the latest additions to scikit learn It s also

expanded to cover cutting edge reinforcement learning techniques based on deep learning as well as an introduction to GANs Finally this book also explores a subfield of natural language processing NLP called sentiment analysis helping you learn how to use machine learning algorithms to classify documents This book is your companion to machine learning with Python whether you re a Python developer new to machine learning or want to deepen your knowledge of the latest developments What you will learn Master the frameworks models and techniques that enable machines to learn from data Use scikit learn for machine learning and TensorFlow for deep learning Apply machine learning to image classification sentiment analysis intelligent web applications and more Build and train neural networks GANs and other models Discover best practices for evaluating and tuning models Predict continuous target outcomes using regression analysis Dig deeper into textual and social media data using sentiment analysis Who this book is for If you know some Python and you want to use machine learning and deep learning pick up this book Whether you want to start from scratch or extend your machine learning knowledge this is an essential resource Written for developers and data scientists who want to create practical machine learning and deep learning code this book is ideal for anyone who wants to teach computers how to learn from data

Machine Learning for Emotion Analysis in Python Allan Ramsay, Tariq Ahmad, 2023-09-28 Kickstart your emotion analysis journey with this step by step guide to data science success Key Features Discover the inner workings of the end to end emotional analysis workflow Explore the use of various ML models to derive meaningful insights from data Hone your craft by building and tweaking complex emotion analysis models with practical projects Purchase of the print or Kindle book includes a free PDF eBook Book Description Artificial intelligence and machine learning are the technologies of the future and this is the perfect time to tap into their potential and add value to your business Machine Learning for Emotion Analysis in Python helps you employ these cutting edge technologies in your customer feedback system and in turn grow your business exponentially With this book you ll take your foundational data science skills and grow them in the exciting realm of emotion analysis By following a practical approach you ll turn customer feedback into meaningful insights assisting you in making smart and data driven business decisions The book will help you understand how to preprocess data build a serviceable dataset and ensure top notch data quality Once you re set up for success you ll explore complex ML techniques uncovering the concepts of deep neural networks support vector machines conditional probabilities and more Finally you ll acquire practical knowledge using in depth use cases showing how the experimental results can be transformed into real life examples and how emotion mining can help track short and long term changes in public opinion By the end of this book you ll be well equipped to use emotion mining and analysis to drive business decisions What you will learn Distinguish between sentiment analysis and emotion analysis Master data preprocessing and ensure high quality input Expand the use of data sources through data transformation Design models that employ cutting edge deep learning techniques Discover how to tune your models hyperparameters Explore the use of naive Bayes SVMs DNNs and transformers for advanced use cases Practice

your newly acquired skills by working on real world scenarios Who this book is for This book is for data scientists and Python developers looking to gain insights into the customer feedback for their product company brand governorship and more Basic knowledge of machine learning and Python programming is a must [Machine Learning with LightGBM and Python](#) Andrigh van Wyk, 2023-09-29 Take your software to the next level and solve real world data science problems by building production ready machine learning solutions using LightGBM and Python Key Features Get started with LightGBM a powerful gradient boosting library for building ML solutions Apply data science processes to real world problems through case studies Elevate your software by building machine learning solutions on scalable platforms Purchase of the print or Kindle book includes a free PDF eBook Book Description Machine Learning with LightGBM and Python is a comprehensive guide to learning the basics of machine learning and progressing to building scalable machine learning systems that are ready for release This book will get you acquainted with the high performance gradient boosting LightGBM framework and show you how it can be used to solve various machine learning problems to produce highly accurate robust and predictive solutions Starting with simple machine learning models in scikit learn you ll explore the intricacies of gradient boosting machines and LightGBM You ll be guided through various case studies to better understand the data science processes and learn how to practically apply your skills to real world problems As you progress you ll elevate your software engineering skills by learning how to build and integrate scalable machine learning pipelines to process data train models and deploy them to serve secure APIs using Python tools such as FastAPI By the end of this book you ll be well equipped to use various of the art tools that will help you build production ready systems including FLAML for AutoML PostgresML for operating ML pipelines using Postgres high performance distributed training and serving via Dask and creating and running models in the Cloud with AWS Sagemaker What you will learn Get an overview of ML and working with data and models in Python using scikit learn Explore decision trees ensemble learning gradient boosting DART and GOSS Master LightGBM and apply it to classification and regression problems Tune and train your models using AutoML with FLAML and Optuna Build ML pipelines in Python to train and deploy models with secure and performant APIs Scale your solutions to production readiness with AWS Sagemaker PostgresML and Dask Who this book is for This book is for software engineers aspiring to be better machine learning engineers and data scientists unfamiliar with LightGBM looking to gain in depth knowledge of its libraries Basic to intermediate Python programming knowledge is required to get started with the book The book is also an excellent source for ML veterans with a strong focus on ML engineering with up to date and thorough coverage of platforms such as AWS Sagemaker PostgresML and Dask [Machine Learning Techniques for Text](#) Nikos Tsourakis, 2022-10-31 Take your Python text processing skills to another level by learning about the latest natural language processing and machine learning techniques with this full color guide Key Features Learn how to acquire and process textual data and visualize the key findings Obtain deeper insight into the most commonly used algorithms and techniques and understand their

tradeoffs Implement models for solving real world problems and evaluate their performance

Book Description With the ever increasing demand for machine learning and programming professionals it s prime time to invest in the field This book will help you in this endeavor focusing specifically on text data and human language by steering a middle path among the various textbooks that present complicated theoretical concepts or focus disproportionately on Python code A good metaphor this work builds upon is the relationship between an experienced craftsman and their trainee Based on the current problem the former picks a tool from the toolbox explains its utility and puts it into action This approach will help you to identify at least one practical use for each method or technique presented The content unfolds in ten chapters each discussing one specific case study For this reason the book is solution oriented It s accompanied by Python code in the form of Jupyter notebooks to help you obtain hands on experience A recurring pattern in the chapters of this book is helping you get some intuition on the data and then implement and contrast various solutions By the end of this book you ll be able to understand and apply various techniques with Python for text preprocessing text representation dimensionality reduction machine learning language modeling visualization and evaluation

What you will learn Understand fundamental concepts of machine learning for text Discover how text data can be represented and build language models Perform exploratory data analysis on text corpora Use text preprocessing techniques and understand their trade offs Apply dimensionality reduction for visualization and classification Incorporate and fine tune algorithms and models for machine learning Evaluate the performance of the implemented systems Know the tools for retrieving text data and visualizing the machine learning workflow

Who this book is for This book is for professionals in the area of computer science programming data science informatics business analytics statistics language technology and more who aim for a gentle career shift in machine learning for text Students in relevant disciplines that seek a textbook in the field will benefit from the practical aspects of the content and how the theory is presented Finally professors teaching a similar course will be able to pick pertinent topics in terms of content and difficulty

Beginner level knowledge of Python programming is needed to get started with this book

Data-Centric Machine Learning with Python Jonas Christensen, Nakul Bajaj, Manmohan Gosada, 2024-02-29 Join the data centric revolution and master the concepts techniques and algorithms shaping the future of AI and ML development using Python

Key Features Grasp the principles of data centricity and apply them to real world scenarios Gain experience with quality data collection labeling and synthetic data creation using Python Develop essential skills for building reliable responsible and ethical machine learning solutions

Purchase of the print or Kindle book includes a free PDF eBook

Book Description In the rapidly advancing data driven world where data quality is pivotal to the success of machine learning and artificial intelligence projects this critically timed guide provides a rare end to end overview of data centric machine learning DCML along with hands on applications of technical and non technical approaches to generating deeper and more accurate datasets This book will help you understand what data centric ML AI is and how it can help you to realize the potential of small data Delving into

the building blocks of data centric ML AI you ll explore the human aspects of data labeling tackle ambiguity in labeling and understand the role of synthetic data From strategies to improve data collection to techniques for refining and augmenting datasets you ll learn everything you need to elevate your data centric practices Through applied examples and insights for overcoming challenges you ll get a roadmap for implementing data centric ML AI in diverse applications in Python By the end of this book you ll have developed a profound understanding of data centric ML AI and the proficiency to seamlessly integrate common data centric approaches in the model development lifecycle to unlock the full potential of your machine learning projects by prioritizing data quality and reliability What you will learn Understand the impact of input data quality compared to model selection and tuning Recognize the crucial role of subject matter experts in effective model development Implement data cleaning labeling and augmentation best practices Explore common synthetic data generation techniques and their applications Apply synthetic data generation techniques using common Python packages Detect and mitigate bias in a dataset using best practice techniques Understand the importance of reliability responsibility and ethical considerations in ML AI Who this book is for This book is for data science professionals and machine learning enthusiasts looking to understand the concept of data centricity its benefits over a model centric approach and the practical application of a best practice data centric approach in their work This book is also for other data professionals and senior leaders who want to explore the tools and techniques to improve data quality and create opportunities for small data ML AI in their organizations

Python Data Science Robert Hack,2020-03-26 Everything You Need to Know About Python Data Science Do you want to get started on Python Data Science Wondering what you need to get prepared for programming with Python You Are 1 Click Away From Knowing All About Python Data Science Hello Welcome to this guide to DEEP LEARNING GUIDE FOR BEGINNERS WITH DATA SCIENCE PYTHON PROGRAMMING AND CRUSH COURSE As the world entered the era of big data the need for its storage also grew It was the main challenge and concern for the enterprise industries until 2010 The main focus was on building framework and solutions to store data Now when Hadoop and other frameworks have successfully solved the problem of storage the focus has shifted to the processing of this data Data Science is the secret sauce here All the ideas which you see in Hollywood sci fi movies can actually turn into reality by Data Science Data Science is the future of Artificial Intelligence Therefore it is very important to understand what is Data Science and how can it add value to your business By the end of this book you will be able to understand what are Data Science and its role in extracting meaningful insights from the complex and large sets of data all around us Why learn Python Data Science To help technology and software driven companies with their software and SAAS products Help leverage cloud platforms for building and delivering solutions Build customer and enterprise mobile app for customer engagement and workforce productivity Build solutions to monitor learn and capture insights from connected devices Python is a user friendly language Python is one of the most used dynamic type programming language In Data Analytics Python is the most widely used language More

precisely the book will teach you What is Data Science Python Basic Data science with Python Python Machine Learning Python Programming Python Basics Python Functions and File Handling Data Visualization Data Mining Frequently Asked QuestionsQ Do I need special software or hardware to read eBooks A All you need is your PC laptop or hand held device and the free Reader software We offer eBooks in three different formats PDF download EPUB download and Online Reader Our Online Reader requires no software other than an internet browser For downloading we will provide you with a link to download the appropriate Reader software free of charge when you make a purchase Q How to buy kindle eBook A You can purchase Kindle books at any time using a web browser Visit Kindle Store to start browsing To purchase Kindle books using your reading app Tap the Store tab or Shop in Kindle Store Browse or search for the Kindle titles you want to read Select Buy Now So what are you waiting for Buy now to join the millions of people already learning about Python Data Science *Deep Learning with PyTorch* Eli Stevens, Luca Antiga, Thomas Viehmann, 2020-08-04 We finally have the definitive treatise on PyTorch It covers the basics and abstractions in great detail I hope this book becomes your extended reference document Soumith Chintala co creator of PyTorch Key Features Written by PyTorch s creator and key contributors Develop deep learning models in a familiar Pythonic way Use PyTorch to build an image classifier for cancer detection Diagnose problems with your neural network and improve training with data augmentation Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About The Book Every other day we hear about new ways to put deep learning to good use improved medical imaging accurate credit card fraud detection long range weather forecasting and more PyTorch puts these superpowers in your hands Instantly familiar to anyone who knows Python data tools like NumPy and Scikit learn PyTorch simplifies deep learning without sacrificing advanced features It s great for building quick models and it scales smoothly from laptop to enterprise Deep Learning with PyTorch teaches you to create deep learning and neural network systems with PyTorch This practical book gets you to work right away building a tumor image classifier from scratch After covering the basics you ll learn best practices for the entire deep learning pipeline tackling advanced projects as your PyTorch skills become more sophisticated All code samples are easy to explore in downloadable Jupyter notebooks What You Will Learn Understanding deep learning data structures such as tensors and neural networks Best practices for the PyTorch Tensor API loading data in Python and visualizing results Implementing modules and loss functions Utilizing pretrained models from PyTorch Hub Methods for training networks with limited inputs Sifting through unreliable results to diagnose and fix problems in your neural network Improve your results with augmented data better model architecture and fine tuning This Book Is Written For For Python programmers with an interest in machine learning No experience with PyTorch or other deep learning frameworks is required About The Authors Eli Stevens has worked in Silicon Valley for the past 15 years as a software engineer and the past 7 years as Chief Technical Officer of a startup making medical device software Luca Antiga is co founder and CEO of an AI engineering company located in Bergamo Italy and a regular

contributor to PyTorch Thomas Viehmann is a Machine Learning and PyTorch speciality trainer and consultant based in Munich Germany and a PyTorch core developer

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Machine Learning with PyTorch and Scikit-Learn Sebastian Raschka, Yuxi (Hayden) Liu, Vahid Mirjalili, 2022-02-25

This book of the bestselling and widely acclaimed Python Machine Learning series is a comprehensive guide to machine and deep learning using PyTorch's simple to code framework

Purchase of the print or Kindle book includes a free eBook in PDF format

Key Features

- Learn applied machine learning with a solid foundation in theory
- Clear intuitive explanations take you deep into the theory and practice of Python machine learning
- Fully updated and expanded to cover PyTorch transformers XGBoost graph neural networks and best practices

Book Description

Machine Learning with PyTorch and Scikit Learn is a comprehensive guide to machine learning and deep learning with PyTorch

It acts as both a step by step tutorial and a reference you'll keep coming back to as you build your machine learning systems

Packed with clear explanations visualizations and examples the book covers all the essential machine learning techniques in depth

While some books teach you only to follow instructions with this machine learning book we teach the principles allowing you to build models and applications for yourself

Why PyTorch

PyTorch is the Pythonic way to learn machine learning making it easier to learn and simpler to code with

This book explains the essential parts of PyTorch and how to create models using popular libraries such as PyTorch Lightning and PyTorch Geometric

You will also learn about generative adversarial networks GANs for generating new data and training intelligent agents with reinforcement learning

Finally this new edition is expanded to cover the latest trends in deep learning including graph neural networks and large scale transformers used for natural language processing NLP

This PyTorch book is your companion to machine learning with Python whether you're a Python developer new to machine learning or want to deepen your knowledge of the latest developments

What you will learn

- Explore frameworks models and techniques for machines to learn from data
- Use scikit learn for machine learning and PyTorch for deep learning
- Train machine learning classifiers on images text and more
- Build and train neural networks transformers and boosting algorithms
- Discover best practices for evaluating and tuning models
- Predict continuous target outcomes using regression analysis
- Dig deeper into textual and social media data using sentiment analysis

Who this book is for

If you have a good grasp of Python basics and want to start learning about machine learning and deep learning then this is the book for you

This is an essential resource

written for developers and data scientists who want to create practical machine learning and deep learning applications using scikit learn and PyTorch Before you get started with this book you ll need a good understanding of calculus as well as linear algebra

Deep Learning with Python Jason Brownlee,2017 **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 This is how machines are learning from you in everyday life And these examples are only the surface of this technological revolution Everyone knows well almost everyone how important Data Science 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 Deep 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 Either if you want to start your own AI entreprise to empower your business or to work in the greatest and most innovative companies Artificial Intelligence is the future and Python and Neural Networks programming is The Skill you want to have The good news is that there is no exclusive club you can easily if you commit of course learn how to find your way around Artificial Intelligence Data Science Deep Learning and Machine Learning and to do that Data Science for Beginners is the best way In Data Science for Beginners you will discover The most effective starting points when training deep neural nets 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

Deep Learning for Computer Vision Jason Brownlee,2019-04-04 Step by step tutorials on deep learning neural networks for computer vision in python with Keras

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techniques with python Deep Learning is a type of artificial intelligence and machine learning that has become extremely important in the past few years Deep Learning allows us to teach machines how to complete complex tasks without explicitly programming them to do so As a result people with the ability to teach machines using deep learning are in extremely high demand It is also leading to them getting huge increases in salaries Deep Learning is revolutionizing the world around us and hence the need to understand and learn it becomes significant In this book we shall cover what is deep learning how you can get started with deep learning and what deep learning can do for you By the end of this book you should be able to know what is deep learning and the tools technology and trends driving the artificial intelligence revolution Several Visual Illustrations and Examples Instead of tough math formulas this book contains several graphs and images which detail all important deep learning concepts and their applications This Is a Practical Guide Book This book will help you explore exactly the most important deep learning techniques by using python and real data It is a step by step book You will build our Deep Learning Models by using Python Target Users The book designed for a variety of target audiences The most suitable users would include Beginners who want to approach data science but are too afraid of complex math to start Newbies in computer science techniques and machine learning Professionals in data science 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 data science What s Inside This Great Book Introduction Deep Learning Techniques Applications Next Steps Practical Sentiment Analysis using TensorFlow with Neural Networks Performing Sequence Classification with RNNs Implementing Sequence Classification Using RNNs in TensorFlow Glossary of Some Useful Terms in Deep Learning Sources References Bonus Chapter Anaconda Setup Python Crash Course Frequently Asked Questions Q Is this book for me and do I need programming experience A f you want to smash Data Science from scratch this book is for you Little programming experience is required If you already wrote a few lines of code and recognize basic programming statements you ll be OK Q Can I loan this book to friends A Yes Under Amazon s Kindle Book Lending program you can lend this book to friends and family for a duration of 14 days Q Does this book include everything I need to become a data science expert A Unfortunately no This book is designed for readers taking their first steps in data science and further learning will be required beyond this book to master all aspects of data science Q Can I have a refund if this book is not fitted for me A Yes Amazon refund you if you aren t satisfied for more information about the amazon refund service please go to the amazon help platform I will also be happy to help you if you send us an email at customer_service@datasciencesbook.com

Machine Learning and Deep Learning Using Python and TensorFlow Venkata Reddy Konasani, Shailendra Kadre, 2021-04-29 Understand the principles and practices of machine learning and deep learning This hands on guide lays out machine learning and deep learning techniques and technologies in a style that is approachable using just the basic math required Written by a pair of experts in the field Machine Learning and Deep Learning Using Python and TensorFlow

contains case studies in several industries including banking insurance e commerce retail and healthcare The book shows how to utilize machine learning and deep learning functions in today s smart devices and apps You will get download links for datasets code and sample projects referred to in the text Coverage includes Machine learning and deep learning concepts Python programming and statistics fundamentals Regression and logistic regression Decision trees Model selection and cross validation Cluster analysis Random forests and boosting Artificial neural networks TensorFlow and Keras Deep learning hyperparameters Convolutional neural networks Recurrent neural networks and long short term memory

Machine Learning With Python Matt Algoré,2021-02-05

Python Data Science Handbook Jake VanderPlas,2022-12-06 Python is a first class tool for many researchers primarily because of its libraries for storing manipulating and gaining insight from data Several resources exist for individual pieces of this data science stack but only with the new edition of Python Data Science Handbook do you get them all IPython NumPy pandas Matplotlib scikit learn and other related tools Working scientists and data crunchers familiar with reading and writing Python code will find the second edition of this comprehensive desk reference ideal for tackling day to day issues manipulating transforming and cleaning data visualizing different types of data and using data to build statistical or machine learning models Quite simply this is the must have reference for scientific computing in Python With this handbook you ll learn how IPython and Jupyter provide computational environments for scientists using Python NumPy includes the ndarray for efficient storage and manipulation of dense data arrays Pandas contains the DataFrame for efficient storage and manipulation of labeled columnar data Matplotlib includes capabilities for a flexible range of data visualizations Scikit learn helps you build efficient and clean Python implementations of the most important and established machine learning algorithms

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in the field find difficult to teach others probably because it is hard to go to the basics if you are already an expert in the more complex fields You should remember it is a very creative field too It s a field where you can become so creative you d code a complex program that would look mysterious to even the head of coding specialists But remember that is only if you understand the basic programming lessons itself Since even specialists find it difficult to teach newbies how can you learn It is not difficult Do you understand every lesson mentioned on programming so far Then you will find it very easy interactive and fascinating to learn python programming if you download [DOWNLOAD Python machine learning for beginners python machine learning](#) is an introduction to neural networks and a brief overview of the processes that you need to know when programming computers and coding with python It is a detailed book that introduced you to the techniques of python programming in a simple way At your own pace understand the basics of python programming [Click here to download your copy](#) This eBook is one sure bet to learn the complex lessons of coding without getting bored with technicalities You probably won t finish it before the urge to yank off everything else and jump straight at your computer coding with compassion What specialties do you stand to learn [Introduction to python machine The process of neural networks and a brief overview Learn coding with python in computer programming Organize data using effective pre processing techniques Get grips to a deeper textual and social media data To optimize your machine learning systems and algorithms You even get to learn how to organize data using various techniques](#) [C mon you can t afford not to have a copy Be sure you scroll up and use the Download button](#) *Machine Learning in Biotechnology and Life Sciences* Saleh Alkhalifa,2022-01-28 Explore all the tools and templates needed for data scientists to drive success in their biotechnology careers with this comprehensive guide [Key Features](#)Learn the applications of machine learning in biotechnology and life science sectorsDiscover exciting real world applications of deep learning and natural language processingUnderstand the general process of deploying models to cloud platforms such as AWS and GCP[Book Description](#) The booming fields of biotechnology and life sciences have seen drastic changes over the last few years With competition growing in every corner companies around the globe are looking to data driven methods such as machine learning to optimize processes and reduce costs This book helps lab scientists engineers and managers to develop a data scientist s mindset by taking a hands on approach to learning about the applications of machine learning to increase productivity and efficiency in no time You ll start with a crash course in Python SQL and data science to develop and tune sophisticated models from scratch to automate processes and make predictions in the biotechnology and life sciences domain As you advance the book covers a number of advanced techniques in machine learning deep learning and natural language processing using real world data By the end of this machine learning book you ll be able to build and deploy your own machine learning models to automate processes and make predictions using AWS and GCP What you will learn[Get started with Python programming and Structured Query Language SQL Develop a machine learning predictive model from scratch using Python](#)Fine tune deep learning models to optimize their performance for

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