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projects If you ve been curious about artificial intelligence and machine learning but didn t know where to start this is the book you ve been waiting for Focusing on the subfield of machine learning known as deep learning it explains core concepts and gives you the foundation you need to start building your own models Rather than simply outlining recipes for using existing toolkits Practical Deep Learning teaches you the why of deep learning and will inspire you to explore further All you need is basic familiarity with computer programming and high school math the book will cover the rest After an introduction to Python you ll move through key topics like how to build a good training dataset work with the scikit learn and Keras libraries and evaluate your models performance You ll also learn How to use classic machine learning models like k Nearest Neighbors Random Forests and Support Vector Machines How neural networks work and how they re trained How to use convolutional neural networks How to develop a successful deep learning model from scratch You ll conduct experiments along the way building to a final case study that incorporates everything you ve learned The perfect introduction to this dynamic ever expanding field Practical Deep Learning will give you the skills and confidence to dive into your own machine learning projects   **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

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pipeline everything from data preprocessing and feature engineering to model evaluation and deep learning Learn from author Chris Albon a data scientist who has written more than 500 tutorials on Python data science and machine learning Each recipe in this practical cookbook includes code solutions that you can put to work right away along with a discussion of how and why they work making it ideal as a learning tool and reference book **Deep Learning With Python** Ethan Williams,2020-04-05 This book discusses the intricacies of the internal workings of a deep learning model It addresses the techniques and methods that can not only boost the productivity of your machine learning architectural skills but also introduces new concepts Implemented correctly these can set your deep learning model a league apart from all other models This book not only focuses on theoretical and conceptual realms of such knowledge but also gives equal importance to putting this information to the test We do this by including some common practical examples and demonstrations that you would normally build deep learning for hence giving you the best of both worlds The main features of this book include Refreshing the fundamentals of a deep learning model and neural networks and connecting them with the advanced knowledge laid out in this book reinforcing the reader s prior knowledge and transforming it into an expert level understanding Emphasizing those tasks that are commonly demanded from deep learning models and breathing new life into them by introducing new techniques methods and elements that enable the model to drastically improve the performance of deep learning models on such tasks Discussing experimentally tested methods that are known to have a positive impact on the model s effectiveness No usage of mathematical notations in the examples detailed in this book so that the concepts can be readily assimilated and mastered by programmers that do not have a mathematical background hence prioritizing clarity of concepts Keeping this requirement in mind the examples use Numpy code throughout as it best represents what the code actually means and its purpose If you want to learn advanced strategies for Python this is the book for you Click the Buy Now button to get started today Python Programming for Beginners Chris Sebastian,2018-12-29 Bonus Buy the Paperback version of this book and get the kindle eBook version included for FREE If you have been trying to learn the Python program for some time now and you have decided this is the time Python for Beginners is the book that you should get Start as a beginner and finish as a pro Not only because of the information that you get from the book also because of the motivation Learning about Python the easy way should be your motto Most of the content that you are likely to find out there about Python is likely to leave you halfway asleep However even though this book has technical stuff because it is needed will also give you some fun facts about Python keep you entertained and most importantly informed It is important to have a book that can guide you during your first stages of becoming a programmer When it comes to learning about something as crucial as this you want to make sure that the first thing you read guides you well a book that you can refer to from time to time when you want to look into something that concerns the program The book will give insights about the two major versions of Python that is Python 2 and 3 You will get to know their differences You will know the importance of coding and why you

need to come up with a good code If you have been wondering how to install Python on either your Windows or Mac operating system this is your chance to learn You will get a step by step guide on how to program via the Tkinter tutorial There is a lot of information on this book that will prove to be helpful As a beginner you will need a lot of information that will add value to your agenda If you have a dream of one day programming a software with the Python program don t start tomorrow start today It is important to have a guide that will give you useful throughout your journey You need to stop procrastinating and start learning how to code the easy way Start your journey once you buy this book Inside you will find The difference between Python 2 and 3 and how they both work A step by step guide that will tell you how to install the program on both Windows and Mac The organization of the Python code The functions that are in Python and why you should use Python while programming Learn about the classes and objects in Python Get to know how Python code is organized and the importance of writing a good code This and more So what are you waiting for Scroll back up and order this book NOW

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   *Deep Learning Step by Step with Python* N. Lewis,2016-07-26 Finally Deep Neural Networks Simplified with Python Deep Learning Step by Step with Python takes you on a gentle fun and unhurried journey to building your own deep neural network models in Python Using plain English it offers an intuitive practical non mathematical easy to follow guide to the most successful ideas outstanding techniques and usable solutions available to the data scientist for deep neural networks using Python NO EXPERIENCE REQUIRED This book is designed to be accessible I m assuming you never did like linear algebra don t want to see things derived dislike complicated computer code and you re here because you want to see deep neural networks explained in plain English and try them out for yourself It is so straightforward and easy to follow even your ten year old nephew who dislikes math can understand it THIS BOOK IS FOR YOU IF YOU WANT Explanations rather than mathematical derivation Real world applications that make sense Illustrations to deepen your understanding Worked examples in Python you can easily follow and immediately implement Ideas you can actually use and try on your own data QUICK AND EASY Bestselling Data Scientist Dr N D Lewis shows you the shortcut up the steep steps to the very top It s easier than you think Through a simple to follow process you will learn how to build deep neural network models with Python Once you have mastered the process it will be easy for you to translate your knowledge into your own powerful data science applications YOU LL LEARN HOW TO Unleash the power of Deep Neural Networks for effective forecasting Develop hands on solutions for binary classification Design successful applications for multi class problems Master techniques for efficient model construction Fine tune deep networks to boost accelerate and transform predictive performance Build Deep Learning Models Faster Everything you need to get started is contained within this book Deep Learning Step by Step with Python is your very own hands on practical tactical easy to follow guide to mastery Buy this book today your next big breakthrough using deep neural networks is only a page away   Deep Learning with Python: A Fundamentals Guide to Understanding Machine Learning and Artificial Intelligence with Scikit-Learn, Tensorflow, and Sebastian Dark,2018-11 Curious to discover the revolutionary technology that is shaping our future and changing the world Deep learning is a part of the field of computer science and a subset of machine learning that involves computer systems being able to learn unsupervised with data that is unlabeled or unstructured In 2017 AlphaGo which is AI developed by Google DeepMind and started off by only knowing the rules of the game was eventually able to train itself and beat Ke Jie the world No 1 ranked player at the time Although this may not seem that impressive at first it is important to understand that Go is a very complex game that many programmers were not able to trump with AI in the past Although Go is an interesting example the possibilities of using machine learning are limitless From retail to medicine to finance machine learning has the ability to change each industry it comes into contact with In fact this revolution has already begun and will only continue to get bigger According to statista com the artificial intelligence industry is set to grow exponentially in the

next few years from 7 Billion in 2018 to 90 Billion in 2025 This isn t something you can afford to miss Without a doubt it is the future However it is as complex as it is revolutionary If you do not have a background or any experience in the field it is easy to get bogged down by all the complicated concepts and term And if you are at a more advanced level the information you find won t be thorough enough In this book you will find the perfect balance between the information being very thorough and being able to understand it Although tailored for beginners it won t contain simple and easily accessible information You will dive deep into the field but will be carefully led through it in a way that will make everything easy to understand even if you do not have a technical background in computer programming In this Guide you will discover What Machine Learning and Deep Learning Is And How You Can Use It To Change The World How The Field Can Be Broken Down And Learned In A Manageable Way Various Applications and Potential of Deep Learning That You Can Utilize That You May Never Have Even Imagined Supervised And Unsupervised Learning And Breaking It Down Step By Step How You Can Create And Train Deep Learning Models Where and How To Install the Best Programs So You Can Get Started Today Sample Codes And Datasets To Practice Along With And much more If you are finally prepared to begin grasping this revolutionary technology at a high level despite what your technical background may be Click Add to Cart Now Get the Kindle eBook version for FREE when you buy the Paperback version of this book   *Data Science and Machine Learning with Python* Swapnil Saurav,2020-12-10 Unlock your potential as an AI and ML professional This book covers basic to advanced level topics required to master the Machine Learning concepts There are lot of programs implemented which goes with the explaination thats why we call it Learn and Practice Book uses Scikit learn formerly scikits learn and also known as sklearn is the most popular package and also a free software machine learning library for the Python programming language It features various classification regression and clustering algorithms including support vector machines random forests gradient boosting k means and DBSCAN and is designed to interoperate with the Python numerical and scientific libraries NumPy and SciPy Happy Coding in Python   <u>Introduction to Machine Learning with Python</u> David James,2018-08-25 BUY NOW will soon return to 24 78 Free eBook for customers who purchase the print book from Amazon Are you thinking of learning more about Machine Learning using Python For Beginners This book would seek to explain common terms and algorithms in an intuitive way The author used a progressive approach whereby we start out slowly and improve on the complexity of our solutions 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 a hands on approach which would lead to better mental representations Step By Step Guide and Visual Illustrations and Examples This book and the accompanying examples you would be well suited to tackle problems which pique your interests using machine learning Instead of tough math formulas this book contains several graphs and images

which detail all important Machine Learning concepts and their applications Target Users The book designed for a variety of target audiences The most suitable users would include Anyone who is intrigued by how algorithms arrive at predictions but has no previous knowledge of the field Software developers and engineers with a strong programming background but seeking to break into the field of machine learning Seasoned professionals in the field of artificial intelligence and machine learning who desire a bird s eye view of current techniques and approaches What s Inside This Book Supervised Learning Algorithms Unsupervised Learning Algorithms Semi supervised Learning Algorithms Reinforcement Learning Algorithms Overfitting and underfitting correctness The Bias Variance Trade off Feature Extraction and Selection A Regression Example Predicting Boston Housing Prices Import Libraries How to forecast and Predict Popular Classification Algorithms Introduction to K Nearest Neighbors Introduction to Support Vector Machine Example of Clustering Running K means with Scikit Learn Introduction to Deep Learning using TensorFlow Deep Learning Compared to Other Machine Learning Approaches Applications of Deep Learning How to run the Neural Network using TensorFlow Cases of Study with Real Data Sources References Frequently Asked Questions Q Is this book for me and do I need programming experience A If you want to smash Machine Learning from scratch this book is for you If you already wrote a few lines of code and recognize basic programming statements you ll be OK Q Does this book include everything I need to become a Machine Learning expert A Unfortunately no This book is designed for readers taking their first steps in Machine Learning and further learning will be required beyond this book to master all aspects of Machine Learning 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 We will also be happy to help you if you send us an email at contact aisciences net If you need to see the quality of our job AI Sciences Company offering you a free eBook in Machine Learning with Python written by the data scientist Alain Kaufmann at http aisciences net free books **Advanced Interdisciplinary Applications of Machine Learning Python Libraries for Data Science** Biju, Soly Mathew,Mishra, Ashutosh,Kumar, Manoj,2023-09-13 The world is approaching a point where big data will start to play a beneficial role in many industries and organizations Today analyzing data for new insights has become an everyday norm increasing the need for data analysts to use efficient and appropriate tools to provide quick and valuable results to clients Existing research in the field currently lacks a full coverage of all essential algorithms leaving a knowledge void for practical implementation and code in Python with all needed libraries and links to datasets used Advanced Interdisciplinary Applications of Machine Learning Python Libraries for Data Science serves as a one stop book to help emerging data scientists gain hands on skills needed through real world data and completely up to date Python code It covers all the technical details from installing the needed software to importing libraries and using the latest data sets deciding on the right model training testing and evaluating the model and including NumPy Pandas and matplotlib With coverage on various machine learning algorithms like regression linear and logical regression classification

support vector machine SVM clustering k nearest neighbor market basket analysis Apriori k means clustering and visualization using Seaborne it is designed for academic researchers undergraduate students postgraduate students executive education program leaders and practitioners   Deep Learning with Python Benjamin Smith,2020-08-24 Are you looking to take your machine learning knowledge further Want to understand what deep learning is all about Then you ve picked the right book With Deep learning with Python Simple and Effective Tips and Tricks to Learn Deep Learning with Python you will learn the basics of deep learning what it is and what it is used for In particular we focus on using the Python programming language over any other given that it is the most popular programming language for data sciences You will learn What deep learning is and how it works Different deep learning methods What its limitations and challenges are Why we prefer to use Python The best Python libraries for deep learning Overviews of classification regression and clustering tasks Algorithms and activation functions What neural nets are Recurrent neural networks and LSTMs Convolutional neural networks and image processing An introduction to deep reinforcement learning And much more You ll also get the chance to build a deep learning model using TensorFlow and Keras Are you excited to get started Then scroll up hit that Buy Now button and get started on the next level in your data science journey   **Machine Learning** James Herron,2020-09-09 Are you ready to start your new exciting career Ready to crush your machine learning career goals Are you overwhelmed with complexity of the books on this subject Then let this breezy and fun book on machine learning models make you an expert in the field of Machine Learning We live in a world of data deluge where gigabytes of data are generated daily It is possible that this data might not be very useful for our daily applications Major setbacks in the use of such data may be due to the presence of loopholes in data links previously generated or the data might be too vast for the limited human mind Machine learning in this book presents some of the solutions to the problems above Being an introductory guide expect to learn the various basics involved in Machine Learning and Python This book provides an insight into the new world of big data then behooves you to learn more about Machine Learning With this book you ll learn What is Machine Learning and what does it entail Fundamental concepts and applications of machine learning Grasp how day to day activities are powered by machine learning Advantages and shortcomings of widely used machine learning algorithms Discover best practices for evaluating and tuning models If you are on the fence about making the leap to a new and lucrative career this is the book for you Then scroll up to the top and hit that BUY BUTTON   **Python Programming** Frank Millstein,2020-09-07 Programming With Python 8 BOOK BUNDLE Deep Learning With Keras Here Is A Preview Of What You ll Learn Here The difference between deep learning and machine learning Deep neural networks Convolutional neural networks Building deep learning models with Keras Multi layer perceptron network models And much more Convolutional Neural Networks In Python Here Is A Preview Of What You ll Learn Here Convolutional neural networks structure How convolutional neural networks actually work Convolutional neural networks applications The importance of convolution operator How to build a simple image

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