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Building Machine Learning Systems with Python

Second Edition

Get more from your data through creating practical machine learning systems with Python

Luis Pedro Coelho
Willi Richert

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Building Machine Learning Systems with Python Luis Pedro Coelho, Willi Richert, Matthieu Brucher, 2018-07-31 Get more from your data by creating practical machine learning systems with Python Key Features Develop your own Python based machine learning system Discover how Python offers multiple algorithms for modern machine learning systems Explore key Python machine learning libraries to implement in your projects Book Description Machine learning allows systems to learn things without being explicitly programmed to do so Python is one of the most popular languages used to develop machine learning applications which take advantage of its extensive library support This third edition of Building Machine Learning Systems with Python addresses recent developments in the field by covering the most used datasets and libraries to help you build practical machine learning systems Using machine learning to gain deeper insights from data is a key skill required by modern application developers and analysts alike Python being a dynamic language allows for fast exploration and experimentation This book shows you exactly how to find patterns in your raw data You will start by brushing up on your Python machine learning knowledge and being introduced to libraries You ll quickly get to grips with serious real world projects on datasets using modeling and creating recommendation systems With Building Machine Learning Systems with Python you ll gain the tools and understanding required to build your own systems all tailored to solve real world data analysis problems By the end of this book you will be able to build machine learning systems using techniques and methodologies such as classification sentiment analysis computer vision reinforcement learning and neural networks What you will learn Build a classification system that can be applied to text images and sound Employ Amazon Web Services AWS to run analysis on the cloud Solve problems related to regression using scikit learn and TensorFlow Recommend products to users based on their past purchases Understand different ways to apply deep neural networks on structured data Address recent developments in the field of computer vision and reinforcement learning Who this book is for Building Machine Learning Systems with Python is for data scientists machine learning developers and Python developers who want to learn how to build increasingly complex machine learning systems You will use Python s machine learning capabilities to develop effective solutions Prior knowledge of Python programming is expected *Building Machine Learning Systems with Python* Willi Richert, 2013-01-01 This is a tutorial driven and practical but well grounded book showcasing good Machine Learning practices There will be an emphasis on using existing technologies instead of showing how to write your own implementations of algorithms This book is a scenario based example driven tutorial By the end of the book you will have learnt critical aspects of Machine Learning Python projects and experienced the power of ML based systems by actually working on them This book primarily targets Python developers who want to learn about and build Machine Learning into their projects or who want to pro Python Machine Learning Sebastian Raschka, 2015-09-23 Unlock deeper insights into Machine Learning with this vital guide to cutting edge predictive analytics About This Book Leverage Python s most powerful

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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

Mastering Machine Learning for Penetration Testing Chiheb Chebbi, 2018-06-27 Become a master at penetration testing using machine learning with Python Key Features Identify ambiguities and breach intelligent security systems Perform unique cyber attacks to breach robust systems Learn to leverage machine learning algorithms Book Description Cyber security is crucial for both businesses and individuals As systems are getting smarter we now see machine learning interrupting computer security With the adoption of machine learning in upcoming security products it s important for pentesters and security researchers to understand how these systems work and to breach them for testing purposes This book begins with the basics of machine learning and the algorithms used to build robust systems Once you ve gained a fair understanding of how security products leverage machine learning you ll dive into the core concepts of breaching such systems Through practical use cases you ll see how to find loopholes and surpass a self learning security system As you make your way through the chapters you ll focus on topics such as network intrusion detection and AV and IDS evasion We ll also cover the best practices when identifying ambiguities and extensive techniques to breach an intelligent system By the end of this book you will be well versed with identifying loopholes in a self learning security system and will be able to efficiently breach a machine learning system What you will learn Take an in depth look at machine learning Get to know natural language processing NLP Understand malware feature engineering Build generative adversarial networks using Python libraries Work on threat hunting with machine learning and the ELK stack Explore the best practices for machine learning Who this book is for This book is for pen testers and security professionals who are interested in learning techniques to break

an intelligent security system Basic knowledge of Python is needed but no prior knowledge of machine learning is necessary

Python Machine Learning Blueprints Alexander Combs, Michael Roman, 2019-01-31 Discover a project based approach to mastering machine learning concepts by applying them to everyday problems using libraries such as scikit learn TensorFlow and Keras Key Features Get to grips with Python's machine learning libraries including scikit learn TensorFlow and Keras Implement advanced concepts and popular machine learning algorithms in real world projects Build analytics computer vision and neural network projects Book Description Machine learning is transforming the way we understand and interact with the world around us This book is the perfect guide for you to put your knowledge and skills into practice and use the Python ecosystem to cover key domains in machine learning This second edition covers a range of libraries from the Python ecosystem including TensorFlow and Keras to help you implement real world machine learning projects The book begins by giving you an overview of machine learning with Python With the help of complex datasets and optimized techniques you'll go on to understand how to apply advanced concepts and popular machine learning algorithms to real world projects Next you'll cover projects from domains such as predictive analytics to analyze the stock market and recommendation systems for GitHub repositories In addition to this you'll also work on projects from the NLP domain to create a custom news feed using frameworks such as scikit learn TensorFlow and Keras Following this you'll learn how to build an advanced chatbot and scale things up using PySpark In the concluding chapters you can look forward to exciting insights into deep learning and you'll even create an application using computer vision and neural networks By the end of this book you'll be able to analyze data seamlessly and make a powerful impact through your projects What you will learn Understand the Python data science stack and commonly used algorithms Build a model to forecast the performance of an Initial Public Offering IPO over an initial discrete trading window Understand NLP concepts by creating a custom news feed Create applications that will recommend GitHub repositories based on ones you've starred watched or forked Gain the skills to build a chatbot from scratch using PySpark Develop a market prediction app using stock data Delve into advanced concepts such as computer vision neural networks and deep learning Who this book is for This book is for machine learning practitioners data scientists and deep learning enthusiasts who want to take their machine learning skills to the next level by building real world projects The intermediate level guide will help you to implement libraries from the Python ecosystem to build a variety of projects addressing various machine learning domains Knowledge of Python programming and machine learning concepts will be helpful

TensorFlow Machine Learning Cookbook Nick McClure, 2018-08-31 Skip the theory and get the most out of Tensorflow to build production ready machine learning models Key Features Exploit the features of Tensorflow to build and deploy machine learning models Train neural networks to tackle real world problems in Computer Vision and NLP Handy techniques to write production ready code for your Tensorflow models Book Description TensorFlow is an open source software library for Machine Intelligence The independent recipes in this book will teach you how to use TensorFlow for

complex data computations and allow you to dig deeper and gain more insights into your data than ever before With the help of this book you will work with recipes for training models model evaluation sentiment analysis regression analysis clustering analysis artificial neural networks and more You will explore RNNs CNNs GANs reinforcement learning and capsule networks each using Google s machine learning library TensorFlow Through real world examples you will get hands on experience with linear regression techniques with TensorFlow Once you are familiar and comfortable with the TensorFlow ecosystem you will be shown how to take it to production By the end of the book you will be proficient in the field of machine intelligence using TensorFlow You will also have good insight into deep learning and be capable of implementing machine learning algorithms in real world scenarios What you will learn Become familiar with the basic features of the TensorFlow library Get to know Linear Regression techniques with TensorFlow Learn SVMs with hands on recipes Implement neural networks to improve predictive modeling Apply NLP and sentiment analysis to your data Master CNN and RNN through practical recipes Implement the gradient boosted random forest to predict housing prices Take TensorFlow into production Who this book is for If you are a data scientist or a machine learning engineer with some knowledge of linear algebra statistics and machine learning this book is for you If you want to skip the theory and build production ready machine learning models using Tensorflow without reading pages and pages of material this book is for you Some background in Python programming is assumed

Machine Learning for Beginners Dr. Harsh Bhasin, 2023-10-16 Learn how to build a complete machine learning pipeline by mastering feature extraction feature selection and algorithm training

KEY FEATURES Develop a solid understanding of foundational principles in machine learning Master regression and classification methods for accurate data prediction and categorization in machine learning Dive into advanced machine learning topics including unsupervised learning and deep learning

DESCRIPTION The second edition of Machine Learning for Beginners addresses key concepts and subjects in machine learning The book begins with an introduction to the foundational principles of machine learning followed by a discussion of data preprocessing It then delves into feature extraction and feature selection providing comprehensive coverage of various techniques such as the Fourier transform short time Fourier transform and local binary patterns Moving on the book discusses principal component analysis and linear discriminant analysis Next the book covers the topics of model representation training testing and cross validation It emphasizes regression and classification explaining and implementing methods such as gradient descent Essential classification techniques including k nearest neighbors logistic regression and naive Bayes are also discussed in detail The book then presents an overview of neural networks including their biological background the limitations of the perceptron and the backpropagation model It also covers support vector machines and kernel methods Decision trees and ensemble models are also discussed The final section of the book provides insight into unsupervised learning and deep learning offering readers a comprehensive overview of these advanced topics By the end of the book you will be well prepared to explore and apply machine learning in various

real world scenarios WHAT YOU WILL LEARN Acquire skills to effectively prepare data for machine learning tasks Learn how to implement learning algorithms from scratch Harness the power of scikit learn to efficiently implement common algorithms Get familiar with various Feature Selection and Feature Extraction methods Learn how to implement clustering algorithms WHO THIS BOOK IS FOR This book is for both undergraduate and postgraduate Computer Science students as well as professionals looking to transition into the captivating realm of Machine Learning assuming a foundational familiarity with Python TABLE OF CONTENTS Section I Fundamentals 1 An Introduction to Machine Learning 2 The Beginning Data Pre Processing 3 Feature Selection 4 Feature Extraction 5 Model Development Section II Supervised Learning 6 Regression 7 K Nearest Neighbors 8 Classification Logistic Regression and Na ve Bayes Classifier 9 Neural Network I The Perceptron 10 Neural Network II The Multi Layer Perceptron 11 Support Vector Machines 12 Decision Trees 13 An Introduction to Ensemble Learning Section III Unsupervised Learning and Deep Learning 14 Clustering 15 Deep Learning Appendix 1 Glossary Appendix 2 Methods Techniques Appendix 3 Important Metrics and Formulas Appendix 4 Visualization Matplotlib Answers to Multiple Choice Questions Bibliography

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 LLMs 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 LLMs 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 *Kubeflow for Machine Learning* Trevor Grant, Holden Karau, Boris Lublinsky, Richard Liu, Ilan Filonenko, 2020-10-13 If you re training a machine learning model but aren t sure how to put it into production this book will get you there Kubeflow provides a collection of cloud native tools for different stages of a model s lifecycle from data exploration feature preparation and model training to model serving This guide helps data scientists build production grade machine learning implementations with Kubeflow and shows data engineers how to make models scalable and reliable Using examples throughout the book authors Holden Karau Trevor Grant Ilan Filonenko Richard Liu and Boris Lublinsky explain how to use Kubeflow to train and serve your machine learning models on top of Kubernetes in the cloud or in a development environment on premises Understand Kubeflow s design core components and the problems it solves Understand the differences between Kubeflow on different cluster types Train models using Kubeflow with popular tools including Scikit learn TensorFlow and Apache Spark Keep your model up to date with Kubeflow Pipelines Understand how to capture model training metadata Explore how to extend Kubeflow with additional open source tools Use hyperparameter tuning for training Learn how to serve your model in production

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