

Building Machine Learning Systems with Python

Third Edition

Explore machine learning and deep learning techniques for building intelligent systems using scikit-learn and TensorFlow



By Luis Pedro Coelho, Willi Richert
and Matthieu Brucher

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Building Machine Learning Systems With Python



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Building Machine Learning Systems With Python:

Building Machine Learning Systems with Python Willi Richert, 2013 *Building Machine Learning Systems with Python - Third Edition* Luis Coelho, Wilhelm Richert, Matthieu Brucher, 2018

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 progr

Building Machine Learning Systems with Python Luis Pedro Coelho, Willi Richert, Matthieu Brucher, 2018-07-31

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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 **Building Machine Learning Systems with Python - Second Edition** Willi Richert,2015-03-26 This book primarily targets Python developers who want to learn and use Python s machine learning capabilities and gain valuable insights from data to develop effective solutions for business problems [Building Machine Learning Systems Using Python](#) Dr Deepti Chopra,2021-05-07 Explore Machine Learning Techniques Different Predictive Models and its Applications KEY FEATURES _ Extensive coverage of real examples on implementation and working of ML models _ Includes different strategies used in Machine Learning by leading data scientists _ Focuses on Machine Learning concepts and their evolution to algorithms DESCRIPTION This book covers basic concepts of Machine Learning various learning paradigms different architectures and algorithms used in these paradigms You will learn the power of ML models by exploring different predictive modeling techniques such as Regression Clustering and Classification You will also get hands on experience on methods and techniques such as Overfitting Underfitting Random Forest Decision Trees PCA

and Support Vector Machines In this book real life examples with fully working of Python implementations are discussed in detail At the end of the book you will learn about the unsupervised learning covering Hierarchical Clustering K means Clustering Dimensionality Reduction Anomaly detection Principal Component Analysis WHAT YOU WILL LEARN _ Learn to perform data engineering and analysis _ Build prototype ML models and production ML models from scratch _ Develop strong proficiency in using scikit learn and Python _ Get hands on experience with Random Forest Logistic Regression SVM PCA and Neural Networks WHO THIS BOOK IS FOR This book is meant for beginners who want to gain knowledge about Machine Learning in detail This book can also be used by Machine Learning users for a quick reference for fundamentals in Machine Learning Readers should have basic knowledge of Python and Scikit Learn before reading the book TABLE OF CONTENTS 1 Introduction to Machine Learning 2 Linear Regression 3 Classification Using Logistic Regression 4 Overfitting and Regularization 5 Feasibility of Learning 6 Support Vector Machine 7 Neural Network 8 Decision Trees 9 Unsupervised Learning 10 Theory of Generalization 11 Bias and Fairness in ML

Machine Learning with Python for Everyone Mark E. Fenner,2020

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 open source libraries for deep learning data wrangling and data visualization Learn effective strategies and best practices to improve and optimize machine learning systems and algorithms Ask and answer tough questions of your data with robust statistical models built for a range of datasets Who This Book Is For If you want to find out how to use Python to start answering critical questions of your data pick up Python Machine Learning whether you want to get started from scratch or want to extend your data science knowledge this is an essential and unmissable resource What You Will Learn Explore how to use different machine learning models to ask different questions of your data Learn how to build neural networks using Keras and Theano Find out how to write clean and elegant Python code that will optimize the strength of your algorithms Discover how to embed your machine learning model in a web application for increased accessibility Predict continuous target outcomes using regression analysis Uncover hidden patterns and structures in data with clustering Organize data using effective pre processing techniques Get to grips with sentiment analysis to delve deeper into textual and social media data In Detail Machine learning and predictive analytics are transforming the way businesses and other organizations operate Being able to understand trends and patterns in complex data is critical to success becoming one of the key strategies for unlocking growth in a challenging contemporary marketplace Python can help you deliver key insights into your data its unique capabilities as a language let you build sophisticated algorithms and statistical models that can reveal new perspectives and answer key questions that are vital for success Python Machine Learning gives you access to the world of predictive analytics and demonstrates why Python is one of the world s leading data science languages If you want to ask better questions of data or need to improve and extend the capabilities of your machine learning systems this practical data science book is

invaluable Covering a wide range of powerful Python libraries including scikit learn Theano and Keras and featuring guidance and tips on everything from sentiment analysis to neural networks you ll soon be able to answer some of the most important questions facing you and your organization Style and approach Python Machine Learning connects the fundamental theoretical principles behind machine learning to their practical application in a way that focuses you on asking and answering the right questions It walks you through the key elements of Python and its powerful machine learning libraries while demonstrating how to get to grips with a range of statistical models

Designing Machine Learning Systems with Python David Julian,2016-04-04 Design efficient machine learning systems that give you more accurate resultsAbout This Book Gain an understanding of the machine learning design process Optimize machine learning systems for improved accuracy Understand common programming tools and techniques for machine learning Develop techniques and strategies for dealing with large amounts of data from a variety of sources Build models to solve unique tasksWho This Book Is ForThis book is for data scientists scientists or just the curious To get the most out of this book you will need to know some linear algebra and some Python and have a basic knowledge of machine learning concepts What You Will Learn Gain an understanding of the machine learning design process Optimize the error function of your machine learning system Understand the common programming patterns used in machine learning Discover optimizing techniques that will help you get the most from your data Find out how to design models uniquely suited to your taskIn DetailMachine learning is one of the fastest growing trends in modern computing It has applications in a wide range of fields including economics the natural sciences web development and business modeling In order to harness the power of these systems it is essential that the practitioner develops a solid understanding of the underlying design principles There are many reasons why machine learning models may not give accurate results By looking at these systems from a design perspective we gain a deeper understanding of the underlying algorithms and the optimisational methods that are available This book will give you a solid foundation in the machine learning design process and enable you to build customised machine learning models to solve unique problems You may already know about or have worked with some of the off the shelf machine learning models for solving common problems such as spam detection or movie classification but to begin solving more complex problems it is important to adapt these models to your own specific needs This book will give you this understanding and more Style and approachThis easy to follow step by step guide covers the most important machine learning models and techniques from a design perspective

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Building Machine Learning Systems With Python Introduction

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