

In A Pickle Over **PANDAS**

Pediatric
Autoimmune
Neuropsychiatric
Disorder
Associated with
Streptococcus



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illustrated by
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In A Pickle Over Pandas

Melanie S. Weiss, RN



In A Pickle Over Pandas:

In A Pickle Over PANDAS Melanie S. Weiss, RN, 2015-06-03 This book is about a young boy's journey with a harrowing illness called PANDAS an acronym for Pediatric Autoimmune Neuropsychiatric Disorder Associated with Streptococcus. He wakes up one morning and overnight is stricken with unusual and frightening symptoms that turn his world upside down. Some of the symptoms he experiences are anxiety OCD. This happened all because an autoimmune response caused dysfunctional antibodies to invade the basal ganglia of the brain instead of fighting off the streptococcus bacteria. The boy has never even heard of PANDAS. After a long road filled with doctor visits blood draws procedures surgery he is finally on the road to recovery. In time he is able to forget about this harrowing illness. Then the only PANDAS he knows of are the black and white bears at the zoo [www.PANDAS DISORDER.com](http://www.PANDASDISORDER.com) Keywords PANDAS PANS Pediatric Autoimmune Neurological Disorder Streptococcus Anxiety OCD Antibiotic

In a Pickle Over Pandas Melanie S. Weiss, 2015-06-01 This book is about a young boy's journey with a harrowing illness called PANDAS an acronym for Pediatric Autoimmune Neuropsychiatric Disorder Associated with Streptococcus. He wakes up one morning and overnight is stricken with unusual and frightening symptoms that turn his world upside down. Some of the symptoms he experiences are anxiety OCD. This happened all because an autoimmune response caused dysfunctional antibodies to invade the basal ganglia of the brain instead of fighting off the streptococcus bacteria. The boy has never even heard of PANDAS. After a long road filled with doctor visits blood draws procedures surgery he is finally on the road to recovery. In time he is able to forget about this harrowing illness. Then the only PANDAS he knows of are the black and white bears at the zoo [www.PANDAS DISORDER.com](http://www.PANDASDISORDER.com) About the author Melanie S. Weiss RNC MNN BSN has been a registered nurse for thirty years certified in maternal newborn nursing. Her goals in writing this book were to explain a frightening illness to the children afflicted with it in an informative but non-frightening way and to raise awareness about the disorder. She is also the author of the article The Pandemonium of PANDAS. Melanie lives in Long Island NY with her husband and three sons and is an employee of the North Shore LIJ Health System. Keywords PANDAS PANS Pediatric Autoimmune Neurological Disorder Streptococcus Anxiety OCD Antibiotic

In Limbo Over Lyme Disease Melanie S. Weiss, R.N., 2019-09-05 In *Limbo Over Lyme Disease* is about the journey of a teen with Lyme disease and co-infections caused by the bite of a tick. If not caught early Lyme disease and co-infections can become chronic and wreak havoc on a person's body, mind, and life. Early diagnosis and treatment are key to a successful recovery. Prevention is important for everyone since ticks are found around the world.

Python Algorithmic Trading Cookbook Pushpak Dagade, 2020-08-28 Build a solid foundation in algorithmic trading by developing testing and executing powerful trading strategies with real market data using Python. Key Features: Build a strong foundation in algorithmic trading by becoming well-versed with the basics of financial markets. Demystify jargon related to understanding and placing multiple types of trading orders. Devise trading strategies and increase your odds of making a profit without human intervention. Book Description If you

want to find out how you can build a solid foundation in algorithmic trading using Python this cookbook is here to help Starting by setting up the Python environment for trading and connectivity with brokers you ll then learn the important aspects of financial markets As you progress you ll learn to fetch financial instruments query and calculate various types of candles and historical data and finally compute and plot technical indicators Next you ll learn how to place various types of orders such as regular bracket and cover orders and understand their state transitions Later chapters will cover backtesting paper trading and finally real trading for the algorithmic strategies that you ve created You ll even understand how to automate trading and find the right strategy for making effective decisions that would otherwise be impossible for human traders By the end of this book you ll be able to use Python libraries to conduct key tasks in the algorithmic trading ecosystem Note For demonstration we re using Zerodha an Indian Stock Market broker If you re not an Indian resident you won t be able to use Zerodha and therefore will not be able to test the examples directly However you can take inspiration from the book and apply the concepts across your preferred stock market broker of choice What you will learn Use Python to set up connectivity with brokers Handle and manipulate time series data using Python Fetch a list of exchanges segments financial instruments and historical data to interact with the real market Understand fetch and calculate various types of candles and use them to compute and plot diverse types of technical indicators Develop and improve the performance of algorithmic trading strategies Perform backtesting and paper trading on algorithmic trading strategies Implement real trading in the live hours of stock markets Who this book is for If you are a financial analyst financial trader data analyst algorithmic trader trading enthusiast or anyone who wants to learn algorithmic trading with Python and important techniques to address challenges faced in the finance domain this book is for you Basic working knowledge of the Python programming language is expected Although fundamental knowledge of trade related terminologies will be helpful it is not mandatory

Python for Data Analysis Wes McKinney, 2022-08-12 Get the definitive handbook for manipulating processing cleaning and crunching datasets in Python Updated for Python 3.10 and pandas 1.4 the third edition of this hands on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively You ll learn the latest versions of pandas NumPy and Jupyter in the process Written by Wes McKinney the creator of the Python pandas project this book is a practical modern introduction to data science tools in Python It s ideal for analysts new to Python and for Python programmers new to data science and scientific computing Data files and related material are available on GitHub Use the Jupyter notebook and IPython shell for exploratory computing Learn basic and advanced features in NumPy Get started with data analysis tools in the pandas library Use flexible tools to load clean transform merge and reshape data Create informative visualizations with matplotlib Apply the pandas groupby facility to slice dice and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real world data analysis problems with thorough detailed examples

Python for Algorithmic Trading Cookbook Jason Strimpel, 2024-08-16 Harness the power of Python libraries to transform

freely available financial market data into algorithmic trading strategies and deploy them into a live trading environment Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Follow practical Python recipes to acquire visualize and store market data for market research Design backtest and evaluate the performance of trading strategies using professional techniques Deploy trading strategies built in Python to a live trading environment with API connectivity Book Description Discover how Python has made algorithmic trading accessible to non professionals with unparalleled expertise and practical insights from Jason Strimpel founder of PyQuant News and a seasoned professional with global experience in trading and risk management This book guides you through from the basics of quantitative finance and data acquisition to advanced stages of backtesting and live trading Detailed recipes will help you leverage the cutting edge OpenBB SDK to gather freely available data for stocks options and futures and build your own research environment using lightning fast storage techniques like SQLite HDF5 and ArcticDB This book shows you how to use SciPy and statsmodels to identify alpha factors and hedge risk and construct momentum and mean reversion factors You ll optimize strategy parameters with walk forward optimization using VectorBT and construct a production ready backtest using Zipline Reloaded Implementing all that you ve learned you ll set up and deploy your algorithmic trading strategies in a live trading environment using the Interactive Brokers API allowing you to stream tick level data submit orders and retrieve portfolio details By the end of this algorithmic trading book you ll not only have grasped the essential concepts but also the practical skills needed to implement and execute sophisticated trading strategies using Python What you will learn Acquire and process freely available market data with the OpenBB Platform Build a research environment and populate it with financial market data Use machine learning to identify alpha factors and engineer them into signals Use VectorBT to find strategy parameters using walk forward optimization Build production ready backtests with Zipline Reloaded and evaluate factor performance Set up the code framework to connect and send an order to Interactive Brokers Who this book is for Python for Algorithmic Trading Cookbook equips traders investors and Python developers with code to design backtest and deploy algorithmic trading strategies You should have experience investing in the stock market knowledge of Python data structures and a basic understanding of using Python libraries like pandas This book is also ideal for individuals with Python experience who are already active in the market or are aspiring to be *Time Series Analysis with Python Cookbook* Tarek A.

Atwan, 2022-06-30 Perform time series analysis and forecasting confidently with this Python code bank and reference manual Key Features Explore forecasting and anomaly detection techniques using statistical machine learning and deep learning algorithms Learn different techniques for evaluating diagnosing and optimizing your models Work with a variety of complex data with trends multiple seasonal patterns and irregularities Book Description Time series data is everywhere available at a high frequency and volume It is complex and can contain noise irregularities and multiple patterns making it crucial to be well versed with the techniques covered in this book for data preparation analysis and forecasting This book covers practical

techniques for working with time series data starting with ingesting time series data from various sources and formats whether in private cloud storage relational databases non relational databases or specialized time series databases such as InfluxDB Next you ll learn strategies for handling missing data dealing with time zones and custom business days and detecting anomalies using intuitive statistical methods followed by more advanced unsupervised ML models The book will also explore forecasting using classical statistical models such as Holt Winters SARIMA and VAR The recipes will present practical techniques for handling non stationary data using power transforms ACF and PACF plots and decomposing time series data with multiple seasonal patterns Later you ll work with ML and DL models using TensorFlow and PyTorch Finally you ll learn how to evaluate compare optimize models and more using the recipes covered in the book What you will learn Understand what makes time series data different from other data Apply various imputation and interpolation strategies for missing data Implement different models for univariate and multivariate time series Use different deep learning libraries such as TensorFlow Keras and PyTorch Plot interactive time series visualizations using hvPlot Explore state space models and the unobserved components model UCM Detect anomalies using statistical and machine learning methods Forecast complex time series with multiple seasonal patterns Who this book is for This book is for data analysts business analysts data scientists data engineers or Python developers who want practical Python recipes for time series analysis and forecasting techniques Fundamental knowledge of Python programming is required Although having a basic math and statistics background will be beneficial it is not necessary Prior experience working with time series data to solve business problems will also help you to better utilize and apply the different recipes in this book *Python for Finance* Yuxing Yan, 2017-06-30 Learn and implement various Quantitative Finance concepts using the popular Python libraries About This Book Understand the fundamentals of Python data structures and work with time series data Implement key concepts in quantitative finance using popular Python libraries such as NumPy SciPy and matplotlib A step by step tutorial packed with many Python programs that will help you learn how to apply Python to finance Who This Book Is For This book assumes that the readers have some basic knowledge related to Python However he she has no knowledge of quantitative finance In addition he she has no knowledge about financial data What You Will Learn Become acquainted with Python in the first two chapters Run CAPM Fama French 3 factor and Fama French Carhart 4 factor models Learn how to price a call put and several exotic options Understand Monte Carlo simulation how to write a Python program to replicate the Black Scholes Merton options model and how to price a few exotic options Understand the concept of volatility and how to test the hypothesis that volatility changes over the years Understand the ARCH and GARCH processes and how to write related Python programs In Detail This book uses Python as its computational tool Since Python is free any school or organization can download and use it This book is organized according to various finance subjects In other words the first edition focuses more on Python while the second edition is truly trying to apply Python to finance The book starts by explaining topics exclusively related to Python

Then we deal with critical parts of Python explaining concepts such as time value of money stock and bond evaluations capital asset pricing model multi factor models time series analysis portfolio theory options and futures This book will help us to learn or review the basics of quantitative finance and apply Python to solve various problems such as estimating IBM s market risk running a Fama French 3 factor 5 factor or Fama French Carhart 4 factor model estimating the VaR of a 5 stock portfolio estimating the optimal portfolio and constructing the efficient frontier for a 20 stock portfolio with real world stock and with Monte Carlo Simulation Later we will also learn how to replicate the famous Black Scholes Merton option model and how to price exotic options such as the average price call option Style and approach This book takes a step by step approach in explaining the libraries and modules in Python and how they can be used to implement various aspects of quantitative finance Each concept is explained in depth and supplemented with code examples for better understanding

Applied AI and Multimedia Technologies for Smart Manufacturing and CPS Applications Oyekanlu,

Emmanuel,2023-04-03 In the past decade artificial intelligence AI data analytics and multimedia technology methods for integrating cyber physical systems CPS smart manufacturing and Industry 4 0 applications in the manufacturing industries have been steadily growing in availability However for industrial leaders finding applicable cost effective and readily implementable multimedia AI and data analytics methods for industrial applications remains a daunting laborious and very expensive endeavor since the ecosystem of these technologies keeps diverging Applied AI and Multimedia Technologies for Smart Manufacturing and CPS Applications provides a review of the state of the art regarding the integration of AI and multimedia technologies for smart manufacturing applications It conducts a cost benefit analysis regarding the benefits of the integration of specific AI and multimedia technologies in specific industrial manufacturing applications Covering topics such as cognitive lead measurement nonlinear filtering methods and global product development this premier reference source is a dynamic resource for business executives and managers entrepreneurs IT professionals manufacturers students and faculty of higher education researchers and academicians

Learning R and Python for Business School Students

Yuxing Yan,2022-11-04 This book provides a guide for business school students individual investors and business professionals to learn R and Python two open source programming languages It is unique since it allows the reader to learn programming in an R assisted learning environment The book provides 15 weeks worth of teaching material for the reader

IoT Data Analytics using Python M S Hariharan,2023-10-23 Harness the power of Python to analyze your IoT data

KEY FEATURES Learn how to build an IoT Data Analytics infrastructure Explore advanced techniques for IoT Data Analysis with Python Gain hands on experience applying IoT Data Analytics to real world situations **DESCRIPTION** Python is a popular programming language for data analytics and it is also well suited for IoT Data Analytics By leveraging Python s versatility and its rich ecosystem of libraries and tools Data Analytics for IoT can unlock valuable insights enable predictive capabilities and optimize decision making in various IoT applications and domains The book begins with a foundation in IoT fundamentals

its role in digital transformation and why Python is the preferred language for IoT Data Analytics It then covers essential data analytics concepts how to establish an IoT Data Analytics environment and how to design and manage real time IoT data flows Next the book discusses how to implement Descriptive Analytics with Pandas Time Series Forecasting with Python libraries and Monitoring Preventive Maintenance Optimization Text Mining and Automation strategies It also introduces Edge Computing and Analytics discusses Continuous and Adaptive Learning concepts and explores data flow and use cases for Edge Analytics Finally the book concludes with a chapter on IoT Data Analytics for self driving cars using the CRISP DM framework for data collection modeling and deployment By the end of the book you will be equipped with the skills and knowledge needed to extract valuable insights from IoT data and build real world applications

WHAT YOU WILL LEARN

Explore the essentials of IoT Data Analytics and the Industry 4 0 revolution Learn how to set up the IoT Data Analytics environment Equip Python developers with data analysis foundations Learn to build data lakes for real time IoT data streaming Learn to deploy machine learning models on edge devices Understand Edge Computing with MicroPython for efficient IoT Data Analytics

WHO THIS BOOK IS FOR If you are an experienced Python developer who wants to master IoT Data Analytics or a newcomer who wants to learn Python and its applications in IoT this book will give you a thorough understanding of IoT Data Analytics and practical skills for real world use cases

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MULTIDISCIPLINARY APPROACHES FOR SUSTAINABLE DEVELOPMENT Anshuman Tripathi, Shilpi Birla, Mamta Soni, Jagrati Sahariya, Monica Sharma, 2024-11-25 In a world where the pace of technological advancement continues to accelerate the imperative to ensure sustainable development has never been more pressing to address the same the 1st International Conference on Multidisciplinary Approaches for Sustainable Development in Science Technology MASDST 2024 took place at Manipal University Jaipur Rajasthan India from 28th to 29th March 2024 Embracing the spirit of innovation and collaboration this conference marks a significant milestone in the pursuit of sustainable solutions for our global challenges

Python Data Analysis Armando Fandango, 2017-03-27 Learn how to apply powerful data analysis techniques with popular open source Python modules About This Book Find manipulate and analyze your data using the Python 3 5 libraries Perform advanced high performance linear algebra and mathematical calculations with clean and efficient Python code An easy to follow guide with realistic examples that are frequently used in real world data analysis projects Who This Book Is For This book is for programmers scientists and engineers who have the knowledge of Python and know the basics of data science It is for those who wish to learn different data analysis methods using Python 3 5 and its libraries This book contains

all the basic ingredients you need to become an expert data analyst

What You Will Learn

- Install open source Python modules such as NumPy, SciPy, Pandas, statsmodels, scikit-learn, theano, keras, and tensorflow on various platforms
- Prepare and clean your data and use it for exploratory analysis
- Manipulate your data with Pandas
- Retrieve and store your data from RDBMS, NoSQL, and distributed filesystems such as HDFS and HDF5
- Visualize your data with open source libraries such as matplotlib, bokeh, and plotly
- Learn about various machine learning methods such as supervised, unsupervised, probabilistic, and Bayesian
- Understand signal processing and time series data analysis
- Get to grips with graph processing and social network analysis

In Detail

Data analysis techniques generate useful insights from small and large volumes of data. Python, with its strong set of libraries, has become a popular platform to conduct various data analysis and predictive modeling tasks. With this book, you will learn how to process and manipulate data with Python for complex analysis and modeling. We learn data manipulations such as aggregating, concatenating, appending, cleaning, and handling missing values with NumPy and Pandas. The book covers how to store and retrieve data from various data sources such as SQL and NoSQL, CSV files, and HDF5. We learn how to visualize data using visualization libraries along with advanced topics such as signal processing, time series, textual data analysis, machine learning, and social media analysis. The book covers a plethora of Python modules such as matplotlib, statsmodels, scikit-learn, and NLTK. It also covers using Python with external environments such as R, Fortran, C, C++, and Boost libraries.

Style and approach

The book takes a very comprehensive approach to enhance your understanding of data analysis. Sufficient real-world examples and use cases are included in the book to help you grasp the concepts quickly and apply them easily in your day-to-day work. Packed with clear, easy-to-follow examples, this book will turn you into an ace data analyst in no time.

Applied Machine Learning and AI for Engineers Jeff Prosise, 2022-11-10

While many introductory guides to AI are calculus books in disguise, this one mostly eschews the math. Instead, author Jeff Prosise helps engineers and software developers build an intuitive understanding of AI to solve business problems. Need to create a system to detect the sounds of illegal logging in the rainforest? Analyze text for sentiment or predict early failures in rotating machinery? This practical book teaches you the skills necessary to put AI and machine learning to work at your company. *Applied Machine Learning and AI for Engineers* provides examples and illustrations from the AI and ML course. Prosise teaches at companies and research institutions worldwide. There's no fluff and no scary equations; just a fast start for engineers and software developers, complete with hands-on examples. This book helps you learn what machine learning and deep learning are and what they can accomplish. Understand how popular learning algorithms work and when to apply them. Build machine learning models in Python with Scikit-Learn and neural networks with Keras and TensorFlow. Train and score regression models and binary and multiclass classification models. Build facial recognition models and object detection models. Build language models that respond to natural language queries and translate text to other languages. Use Cognitive Services to infuse AI into the apps that you write.

Machine Learning for Biomedical Applications Maria Deprez, Emma C. Robinson, 2023-09-07

Machine

Learning for Biomedical Applications With Scikit Learn and PyTorch presents machine learning techniques most commonly used in a biomedical setting Avoiding a theoretical perspective it provides a practical and interactive way of learning where concepts are presented in short descriptions followed by simple examples using biomedical data Interactive Python notebooks are provided with each chapter to complement the text and aid understanding Sections cover uses in biomedical applications practical Python coding skills mathematical tools that underpin the field core machine learning methods deep learning concepts with examples in Keras and much more This accessible and interactive introduction to machine learning and data analysis skills is suitable for undergraduates and postgraduates in biomedical engineering computer science the biomedical sciences and clinicians Gives a basic understanding of the most fundamental concepts within machine learning and their role in biomedical data analysis Shows how to apply a range of commonly used machine learning and deep learning techniques to biomedical problems Develops practical computational skills needed to implement machine learning and deep learning models for biomedical data sets Shows how to design machine learning experiments that address specific problems related to biomedical data

Python for Finance Yves J. Hilpisch, 2018-12-05 The financial industry has recently adopted Python at a tremendous rate with some of the largest investment banks and hedge funds using it to build core trading and risk management systems Updated for Python 3 the second edition of this hands on book helps you get started with the language guiding developers and quantitative analysts through Python libraries and tools for building financial applications and interactive financial analytics Using practical examples throughout the book author Yves Hilpisch also shows you how to develop a full fledged framework for Monte Carlo simulation based derivatives and risk analytics based on a large realistic case study Much of the book uses interactive IPython Notebooks

Data Science Essentials in Python Dmitry Zinoviev, 2016-08-10 Go from messy unstructured artifacts stored in SQL and NoSQL databases to a neat well organized dataset with this quick reference for the busy data scientist Understand text mining machine learning and network analysis process numeric data with the NumPy and Pandas modules describe and analyze data using statistical and network theoretical methods and see actual examples of data analysis at work This one stop solution covers the essential data science you need in Python Data science is one of the fastest growing disciplines in terms of academic research student enrollment and employment Python with its flexibility and scalability is quickly overtaking the R language for data scientific projects Keep Python data science concepts at your fingertips with this modular quick reference to the tools used to acquire clean analyze and store data This one stop solution covers essential Python databases network analysis natural language processing elements of machine learning and visualization Access structured and unstructured text and numeric data from local files databases and the Internet Arrange rearrange and clean the data Work with relational and non relational databases data visualization and simple predictive analysis regressions clustering and decision trees See how typical data analysis problems are handled And try your hand at your own solutions to a variety of medium scale projects that are fun to

work on and look good on your resume Keep this handy quick guide at your side whether you re a student an entry level data science professional converting from R to Python or a seasoned Python developer who doesn t want to memorize every function and option What You Need You need a decent distribution of Python 3.3 or above that includes at least NLTK Pandas NumPy Matplotlib Networkx SciKit Learn and BeautifulSoup A great distribution that meets the requirements is Anaconda available for free from www.continuum.io If you plan to set up your own database servers you also need MySQL www.mysql.com and MongoDB www.mongodb.com Both packages are free and run on Windows Linux and Mac OS

Programming for Corpus Linguistics with Python and Dataframes Daniel Keller, 2024-06-30 This Element offers intermediate or experienced programmers algorithms for Corpus Linguistic CL programming in the Python language using dataframes that provide a fast efficient intuitive set of methods for working with large complex datasets such as corpora This Element demonstrates principles of dataframe programming applied to CL analyses as well as complete algorithms for creating concordances producing lists of collocates keywords and lexical bundles and performing key feature analysis An additional algorithm for creating dataframe corpora is presented including methods for tokenizing part of speech tagging and lemmatizing using spaCy This Element provides a set of core skills that can be applied to a range of CL research questions as well as to original analyses not possible with existing corpus software

Fighting Churn with Data Carl Gold, 2020-11-13 The beating heart of any product or service business is returning clients Don t let your hard won customers vanish taking their money with them In *Fighting Churn with Data* you ll learn powerful data driven techniques to maximize customer retention and minimize actions that cause them to stop engaging or unsubscribe altogether Summary The beating heart of any product or service business is returning clients Don t let your hard won customers vanish taking their money with them In *Fighting Churn with Data* you ll learn powerful data driven techniques to maximize customer retention and minimize actions that cause them to stop engaging or unsubscribe altogether This hands on guide is packed with techniques for converting raw data into measurable metrics testing hypotheses and presenting findings that are easily understandable to non technical decision makers Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology Keeping customers active and engaged is essential for any business that relies on recurring revenue and repeat sales Customer turnover or churn is costly frustrating and preventable By applying the techniques in this book you can identify the warning signs of churn and learn to catch customers before they leave About the book *Fighting Churn with Data* teaches developers and data scientists proven techniques for stopping churn before it happens Packed with real world use cases and examples this book teaches you to convert raw data into measurable behavior metrics calculate customer lifetime value and improve churn forecasting with demographic data By following Zuora Chief Data Scientist Carl Gold s methods you ll reap the benefits of high customer retention What s inside Calculating churn metrics Identifying user behavior that predicts churn Using churn reduction tactics with customer segmentation Applying

churn analysis techniques to other business areas Using AI for accurate churn forecasting About the reader For readers with basic data analysis skills including Python and SQL About the author Carl Gold PhD is the Chief Data Scientist at Zuora Inc the industry leading subscription management platform Table of Contents PART 1 BUILDING YOUR ARSENAL 1 The world of churn 2 Measuring churn 3 Measuring customers 4 Observing renewal and churn PART 2 WAGING THE WAR 5 Understanding churn and behavior with metrics 6 Relationships between customer behaviors 7 Segmenting customers with advanced metrics PART 3 SPECIAL WEAPONS AND TACTICS 8 Forecasting churn 9 Forecast accuracy and machine learning 10 Churn demographics and firmographics 11 Leading the fight against churn

Data Science with Python Rohan Chopra, Aaron England, Mohamed Noordeen Alaudeen, 2019-07-19 Leverage the power of the Python data science libraries and advanced machine learning techniques to analyse large unstructured datasets and predict the occurrence of a particular future event Key Features Explore the depths of data science from data collection through to visualization Learn pandas scikit learn and Matplotlib in detail Study various data science algorithms using real world datasets Book Description Data Science with Python begins by introducing you to data science and teaches you to install the packages you need to create a data science coding environment You will learn three major techniques in machine learning unsupervised learning supervised learning and reinforcement learning You will also explore basic classification and regression techniques such as support vector machines decision trees and logistic regression As you make your way through chapters you will study the basic functions data structures and syntax of the Python language that are used to handle large datasets with ease You will learn about NumPy and pandas libraries for matrix calculations and data manipulation study how to use Matplotlib to create highly customizable visualizations and apply the boosting algorithm XGBoost to make predictions In the concluding chapters you will explore convolutional neural networks CNNs deep learning algorithms used to predict what is in an image You will also understand how to feed human sentences to a neural network make the model process contextual information and create human language processing systems to predict the outcome By the end of this book you will be able to understand and implement any new data science algorithm and have the confidence to experiment with tools or libraries other than those covered in the book What you will learn Pre process data to make it ready to use for machine learning Create data visualizations with Matplotlib Use scikit learn to perform dimension reduction using principal component analysis PCA Solve classification and regression problems Get predictions using the XGBoost library Process images and create machine learning models to decode them Process human language for prediction and classification Use TensorBoard to monitor training metrics in real time Find the best hyperparameters for your model with AutoML Who this book is for Data Science with Python is designed for data analysts data scientists database engineers and business analysts who want to move towards using Python and machine learning techniques to analyze data and predict outcomes Basic knowledge of Python and data analytics will prove beneficial to understand the various concepts explained through this book

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In A Pickle Over Pandas Introduction

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