Quick answers to common problems

Python Business Intelligence Cookbook

Leverage the computational power of Python with more than 60 recipes that arm you with the required skills to make informed business decisions

Robert Dempsey

Python Business Intelligence Cookbook

Yuxi (Hayden) Liu

Python Business Intelligence Cookbook:

Python Business Intelligence Cookbook Robert Dempsey,2015-12-22 Leverage the computational power of Python with more than 60 recipes that arm you with the required skills to make informed business decisions About This Book Want to minimize risk and optimize profits of your business Learn to create efficient analytical reports with ease using this highly practical easy to follow guide Learn to apply Python for business intelligence tasks preparing exploring analyzing visualizing and reporting in order to make more informed business decisions using data at hand Learn to explore and analyze business data and build business intelligence dashboards with the help of various insightful recipes Who This Book Is For This book is intended for data analysts managers and executives with a basic knowledge of Python who now want to use Python for their BI tasks If you have a good knowledge and understanding of BI applications and have a working system in place this book will enhance your toolbox What You Will Learn Install Anaconda MongoDB and everything you need to get started with your data analysis Prepare data for analysis by querying cleaning and standardizing data Explore your data by creating a Pandas data frame from MongoDB Gain powerful insights both statistical and predictive to make informed business decisions Visualize your data by building dashboards and generating reports Create a complete data processing and business intelligence system In Detail The amount of data produced by businesses and devices is going nowhere but up In this scenario the major advantage of Python is that it s a general purpose language and gives you a lot of flexibility in data structures Python is an excellent tool for more specialized analysis tasks and is powered with related libraries to process data streams to visualize datasets and to carry out scientific calculations Using Python for business intelligence BI can help you solve tricky problems in one go Rather than spending day after day scouring Internet forums for how to information here you ll find more than 60 recipes that take you through the entire process of creating actionable intelligence from your raw data no matter what shape or form it s in Within the first 30 minutes of opening this book you ll learn how to use the latest in Python and NoSQL databases to glean insights from data just waiting to be exploited We ll begin with a quick fire introduction to Python for BI and show you what problems Python solves From there we move on to working with a predefined data set to extract data as per business requirements using the Pandas library and MongoDB as our storage engine Next we will analyze data and perform transformations for BI with Python Through this you will gather insightful data that will help you make informed decisions for your business The final part of the book will show you the most important task of BI visualizing data by building stunning dashboards using Matplotlib PyTables and iPython Notebook Style and approach This is a step by step guide to help you prepare explore analyze and report data written in a conversational tone to make it easy to grasp Whether you re new to BI or are looking for a better way to work you ll find the knowledge and skills here to get your job done efficiently **Python Data Cleaning Cookbook** Michael Walker,2020-12-11 Discover how to describe your data in detail identify data issues and find out how to solve them using commonly used techniques and tips and tricks

Key FeaturesGet well versed with various data cleaning techniques to reveal key insightsManipulate data of different complexities to shape them into the right form as per your business needsClean monitor and validate large data volumes to diagnose problems before moving on to data analysisBook Description Getting clean data to reveal insights is essential as directly jumping into data analysis without proper data cleaning may lead to incorrect results This book shows you tools and techniques that you can apply to clean and handle data with Python You ll begin by getting familiar with the shape of data by using practices that can be deployed routinely with most data sources Then the book teaches you how to manipulate data to get it into a useful form You ll also learn how to filter and summarize data to gain insights and better understand what makes sense and what does not along with discovering how to operate on data to address the issues you ve identified Moving on you ll perform key tasks such as handling missing values validating errors removing duplicate data monitoring high volumes of data and handling outliers and invalid dates Next you ll cover recipes on using supervised learning and Naive Bayes analysis to identify unexpected values and classification errors and generate visualizations for exploratory data analysis EDA to visualize unexpected values Finally you ll build functions and classes that you can reuse without modification when you have new data By the end of this Python book you ll be equipped with all the key skills that you need to clean data and diagnose problems within it What you will learnFind out how to read and analyze data from a variety of sourcesProduce summaries of the attributes of data frames columns and rowsFilter data and select columns of interest that satisfy given criteriaAddress messy data issues including working with dates and missing valuesImprove your productivity in Python pandas by using method chainingUse visualizations to gain additional insights and identify potential data issuesEnhance your ability to learn what is going on in your dataBuild user defined functions and classes to automate data cleaningWho this book is for This book is for anyone looking for ways to handle messy duplicate and poor data using different Python tools and techniques The book takes a recipe based approach to help you to learn how to clean and manage data Working knowledge of Python programming is all you need to get the most out of the book   **Python Data Science Cookbook** Gopi Subramanian,2015-11-11 Over 60 practical recipes to help you explore Python and its robust data science capabilitiesAbout This Book The book is packed with simple and concise Python code examples to effectively demonstrate advanced concepts in action Explore concepts such as programming data mining data analysis data visualization and machine learning using Python Get up to speed on machine learning algorithms with the help of easy to follow insightful recipesWho This Book Is ForThis book is intended for all levels of Data Science professionals both students and practitioners starting from novice to experts Novices can spend their time in the first five chapters getting themselves acquainted with Data Science Experts can refer to the chapters starting from 6 to understand how advanced techniques are implemented using Python People from non Python backgrounds can also effectively use this book but it would be helpful if you have some prior basic programming experience What You Will Learn Explore the complete range of Data Science algorithms Get to know the tricks used by

industry engineers to create the most accurate data science models Manage and use Python libraries such as numpy scipy scikit learn and matplotlib effectively Create meaningful features to solve real world problems Take a look at Advanced Regression methods for model building and variable selection Get a thorough understanding of the underlying concepts and implementation of Ensemble methods Solve real world problems using a variety of different datasets from numerical and text data modalities Get accustomed to modern state of the art algorithms such as Gradient Boosting Random Forest Rotation Forest and so onIn DetailPython is increasingly becoming the language for data science It is overtaking R in terms of adoption it is widely known by many developers and has a strong set of libraries such as Numpy Pandas scikit learn Matplotlib Ipython and Scipy to support its usage in this field Data Science is the emerging new hot tech field which is an amalgamation of different disciplines including statistics machine learning and computer science It s a disruptive technology changing the face of today s business and altering the economy of various verticals including retail manufacturing online ventures and hospitality to name a few in a big way This book will walk you through the various steps starting from simple to the most complex algorithms available in the Data Science arsenal to effectively mine data and derive intelligence from it At every step we provide simple and efficient Python recipes that will not only show you how to implement these algorithms but also clarify the underlying concept thoroughly The book begins by introducing you to using Python for Data Science followed by working with Python environments You will then learn how to analyse your data with Python The book then teaches you the concepts of data mining followed by an extensive coverage of machine learning methods It introduces you to a number of Python libraries available to help implement machine learning and data mining routines effectively It also covers the principles of shrinkage ensemble methods random forest rotation forest and extreme trees which are a must have for any successful Data Science Professional Style and approachThis is a step by step recipe based approach to Data Science algorithms introducing the math philosophy behind these algorithms **Time Series Analysis with Python Cookbook** Tarek A. Atwan,2026-01-16 Perform time series analysis and forecasting confidently with this Python code bank and reference manual Access exclusive GitHub bonus chapters and hands on recipes covering Python setup probabilistic deep learning forecasts frequency domain analysis large scale data handling databases InfluxDB and advanced visualizations Purchase of the print or Kindle book includes a free PDF eBook Key Features Explore up to date 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 DescriptionTo use time series data to your advantage you need to master data preparation analysis and forecasting This fully refreshed second edition helps you unlock insights from time series data with new chapters on probabilistic models signal processing techniques and new content on transformers You ll work with the latest releases of popular libraries like Pandas Polars Sktime stats models stats forecast Darts and Prophet through up to date

examples You ll hit the ground running by ingesting time series data from various sources and formats and learn strategies for handling missing data dealing with time zones and custom business days and detecting anomalies using intuitive statistical methods Through detailed instructions you ll explore forecasting using classical statistical models such as Holt Winters SARIMA and VAR and learn practical techniques for handling non stationary data using power transforms ACF and PACF plots and decomposing time series data with seasonal patterns The recipes then level up to cover more advanced topics such as building ML and DL models using TensorFlow and PyTorch and applying probabilistic modeling techniques In this part you ll also be able to evaluate compare and optimize models finishing with a strong command of wrangling data with Python What you will learn Understand what makes time series data different from other data Apply imputation and interpolation strategies to handle missing data Implement an array of models for univariate and multivariate time series 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 Use conformal prediction for constructing prediction intervals for time series Who this book is for This book is for data analysts business analysts data scientists data engineers and Python developers who want to learn time series analysis and forecasting techniques step by step through practical Python recipes To get the most out of this book you ll need fundamental Python programming knowledge Prior experience working with time series data to solve business problems will help you to better utilize and apply the recipes more quickly   **Python Data Analysis Cookbook** Ivan Idris,2016-07-22

Python Machine Learning Cookbook Giuseppe Ciaburro,Prateek Joshi,2019-03-30 Discover powerful ways to effectively solve real world machine learning problems using key libraries including scikit learn TensorFlow and PyTorch Key FeaturesLearn and implement machine learning algorithms in a variety of real life scenariosCover a range of tasks catering to supervised unsupervised and reinforcement learning techniquesFind easy to follow code solutions for tackling common and not so common challengesBook Description This eagerly anticipated second edition of the popular Python Machine Learning Cookbook will enable you to adopt a fresh approach to dealing with real world machine learning and deep learning tasks With the help of over 100 recipes you will learn to build powerful machine learning applications using modern libraries from the Python ecosystem The book will also guide you on how to implement various machine learning algorithms for classification clustering and recommendation engines using a recipe based approach With emphasis on practical solutions dedicated sections in the book will help you to apply supervised and unsupervised learning techniques to real world problems Toward the concluding chapters you will get to grips with recipes that teach you advanced techniques including reinforcement learning deep neural networks and automated machine learning By the end of this book you will be equipped with the skills you need to apply machine learning techniques and leverage the full capabilities of the Python ecosystem through real world examples What you will learnUse predictive modeling and apply it to real world problemsExplore data

visualization techniques to interact with your dataLearn how to build a recommendation engineUnderstand how to interact with text data and build models to analyze itWork with speech data and recognize spoken words using Hidden Markov ModelsGet well versed with reinforcement learning automated ML and transfer learningWork with image data and build systems for image recognition and biometric face recognitionUse deep neural networks to build an optical character recognition systemWho this book is for This book is for data scientists machine learning developers deep learning enthusiasts and Python programmers who want to solve real world challenges using machine learning techniques and algorithms If you are facing challenges at work and want ready to use code solutions to cover key tasks in machine learning and the deep learning domain then this book is what you need Familiarity with Python programming and machine learning concepts will be useful   Machine Learning for Cybersecurity Cookbook Emmanuel Tsukerman,2019-11-25 Learn how to apply modern AI to create powerful cybersecurity solutions for malware pentesting social engineering data privacy and intrusion detection Key FeaturesManage data of varying complexity to protect your system using the Python ecosystemApply ML to pentesting malware data privacy intrusion detection system IDS and social engineeringAutomate your daily workflow by addressing various security challenges using the recipes covered in the bookBook Description Organizations today face a major threat in terms of cybersecurity from malicious URLs to credential reuse and having robust security systems can make all the difference With this book you ll learn how to use Python libraries such as TensorFlow and scikit learn to implement the latest artificial intelligence AI techniques and handle challenges faced by cybersecurity researchers You ll begin by exploring various machine learning ML techniques and tips for setting up a secure lab environment Next you ll implement key ML algorithms such as clustering gradient boosting random forest and XGBoost The book will guide you through constructing classifiers and features for malware which you ll train and test on real samples As you progress you ll build self learning reliant systems to handle cybersecurity tasks such as identifying malicious URLs spam email detection intrusion detection network protection and tracking user and process behavior Later you ll apply generative adversarial networks GANs and autoencoders to advanced security tasks Finally you ll delve into secure and private AI to protect the privacy rights of consumers using your ML models By the end of this book you ll have the skills you need to tackle real world problems faced in the cybersecurity domain using a recipe based approach What you will learnLearn how to build malware classifiers to detect suspicious activitiesApply ML to generate custom malware to pentest your securityUse ML algorithms with complex datasets to implement cybersecurity conceptsCreate neural networks to identify fake videos and imagesSecure your organization from one of the most popular threats insider threatsDefend against zero day threats by constructing an anomaly detection systemDetect web vulnerabilities effectively by combining Metasploit and MLUnderstand how to train a model without exposing the training dataWho this book is for This book is for cybersecurity professionals and security researchers who are looking to implement the latest machine learning techniques to boost computer security and gain insights into

securing an organization using red and blue team ML This recipe based book will also be useful for data scientists and machine learning developers who want to experiment with smart techniques in the cybersecurity domain Working knowledge of Python programming and familiarity with cybersecurity fundamentals will help you get the most out of this book **Data Science for Librarians** Yunfei Du,Hammad Rauf Khan,2020-03-26 This unique textbook intersects traditional library science with data science principles that readers will find useful in implementing or improving data services within their libraries Data Science for Librarians introduces data science to students and practitioners in library services Writing for academic public and school library managers library science students and library and information science educators authors Yunfei Du and Hammad Rauf Khan provide a thorough overview of conceptual and practical tools for data librarian practice Partially due to how quickly data science evolves libraries have yet to recognize core competencies and skills required to perform the job duties of a data librarian As society transitions from the information age into the era of big data librarians and information professionals require new knowledge and skills to stay current and take on new job roles such as data librarianship Such skills as data curation research data management statistical analysis business analytics visualization smart city data and learning analytics are relevant in library services today and will become increasingly so in the near future This text serves as a tool for library and information science students and educators working on data science curriculum design **Python Machine Learning Cookbook** Prateek Joshi,2016-06-23 100 recipes that teach you how to perform various machine learning tasks in the real world About This Book Understand which algorithms to use in a given context with the help of this exciting recipe based guide Learn about perceptrons and see how they are used to build neural networks Stuck while making sense of images text speech and real estate This guide will come to your rescue showing you how to perform machine learning for each one of these using various techniques Who This Book Is For This book is for Python programmers who are looking to use machine learning algorithms to create real world applications This book is friendly to Python beginners but familiarity with Python programming would certainly be useful to play around with the code What You Will Learn Explore classification algorithms and apply them to the income bracket estimation problem Use predictive modeling and apply it to real world problems Understand how to perform market segmentation using unsupervised learning Explore data visualization techniques to interact with your data in diverse ways Find out how to build a recommendation engine Understand how to interact with text data and build models to analyze it Work with speech data and recognize spoken words using Hidden Markov Models Analyze stock market data using Conditional Random Fields Work with image data and build systems for image recognition and biometric face recognition Grasp how to use deep neural networks to build an optical character recognition system In Detail Machine learning is becoming increasingly pervasive in the modern data driven world It is used extensively across many fields such as search engines robotics self driving cars and more With this book you will learn how to perform various machine learning tasks in different environments We ll start by exploring a range

of real life scenarios where machine learning can be used and look at various building blocks Throughout the book you ll use a wide variety of machine learning algorithms to solve real world problems and use Python to implement these algorithms You ll discover how to deal with various types of data and explore the differences between machine learning paradigms such as supervised and unsupervised learning We also cover a range of regression techniques classification algorithms predictive modeling data visualization techniques recommendation engines and more with the help of real world examples Style and approach You will explore various real life scenarios in this book where machine learning can be used and learn about different building blocks of machine learning using independent recipes in the book   *PyTorch 1.x Reinforcement Learning Cookbook* Yuxi (Hayden) Liu,2019-10-31 Implement reinforcement learning techniques and algorithms with the help of real world examples and recipes Key FeaturesUse PyTorch 1 x to design and build self learning artificial intelligence AI modelsImplement RL algorithms to solve control and optimization challenges faced by data scientists todayApply modern RL libraries to simulate a controlled environment for your projectsBook Description Reinforcement learning RL is a branch of machine learning that has gained popularity in recent times It allows you to train AI models that learn from their own actions and optimize their behavior PyTorch has also emerged as the preferred tool for training RL models because of its efficiency and ease of use With this book you ll explore the important RL concepts and the implementation of algorithms in PyTorch 1 x The recipes in the book along with real world examples will help you master various RL techniques such as dynamic programming Monte Carlo simulations temporal difference and Q learning You ll also gain insights into industry specific applications of these techniques Later chapters will guide you through solving problems such as the multi armed bandit problem and the cartpole problem using the multi armed bandit algorithm and function approximation You ll also learn how to use Deep Q Networks to complete Atari games along with how to effectively implement policy gradients Finally you ll discover how RL techniques are applied to Blackjack Gridworld environments internet advertising and the Flappy Bird game By the end of this book you ll have developed the skills you need to implement popular RL algorithms and use RL techniques to solve real world problems What you will learnUse Q learning and the state action reward state action SARSA algorithm to solve various Gridworld problemsDevelop a multi armed bandit algorithm to optimize display advertisingScale up learning and control processes using Deep Q NetworksSimulate Markov Decision Processes OpenAI Gym environments and other common control problemsSelect and build RL models evaluate their performance and optimize and deploy themUse policy gradient methods to solve continuous RL problemsWho this book is for Machine learning engineers data scientists and AI researchers looking for quick solutions to different reinforcement learning problems will find this book useful Although prior knowledge of machine learning concepts is required experience with PyTorch will be useful but not necessary   ,

Jakarta Struts Cookbook Bill Siggelkow,2005-02-23 The Jakarta Struts Framework is a popular open source platform for building web applications from top to bottom with Java While this popularity has led to a wealth of online and in print

documentation developers still find themselves faced with a number of common tasks that are not clearly and succinctly explained In these situations programmers can now turn to the Jakarta Struts Cookbook an amazing collection of code solutions to common and uncommon problems encountered when working with the Struts Framework Among many other recipes this book explains how to display data in complex HTML tables use JSP the JSTL and JavaScript in your user interface define static and dynamic action forms validate data and respond to errors use Logging Validation and Exception Handling integrate Struts with persistence frameworks like Hibernate and iBATIS This look up reference is just what today s time pressed developers need With solutions to real world problems just a few page flips away information is instantly available And while the book s solutions focus on getting to the point each recipe s discussion section imparts valuable concept and insight from a Struts veteran The Jakarta Struts Cookbook is perfect for independent developers large development teams and everyone in between who wishes to use the Struts Framework to its fullest potential Plus it s completely up to date with the latest versions of Framework so readers can be sure the information is viable   *Matplotlib 3.0 Cookbook* Srinivasa Rao Poladi,2018-10-23 Build attractive insightful and powerful visualizations to gain quality insights from your data Key FeaturesMaster Matplotlib for data visualizationCustomize basic plots to make and deploy figures in cloud environmentsExplore recipes to design various data visualizations from simple bar charts to advanced 3D plotsBook Description Matplotlib provides a large library of customizable plots along with a comprehensive set of backends Matplotlib 3 0 Cookbook is your hands on guide to exploring the world of Matplotlib and covers the most effective plotting packages for Python 3 7 With the help of this cookbook you ll be able to tackle any problem you might come across while designing attractive insightful data visualizations With the help of over 150 recipes you ll learn how to develop plots related to business intelligence data science and engineering disciplines with highly detailed visualizations Once you ve familiarized yourself with the fundamentals you ll move on to developing professional dashboards with a wide variety of graphs and sophisticated grid layouts in 2D and 3D You ll annotate and add rich text to the plots enabling the creation of a business storyline In addition to this you ll learn how to save figures and animations in various formats for downstream deployment followed by extending the functionality offered by various internal and third party toolkits such as axisartist axes_grid Cartopy and Seaborn By the end of this book you ll be able to create high quality customized plots and deploy them on the web and on supported GUI applications such as Tkinter Qt 5 and wxPython by implementing real world use cases and examples What you will learnDevelop simple to advanced data visualizations in Matplotlib Use the pyplot API to quickly develop and deploy different plots Use object oriented APIs for maximum flexibility with the customization of figuresDevelop interactive plots with animation and widgets Use maps for geographical plotting Enrich your visualizations using embedded texts and mathematical expressionsEmbed Matplotlib plots into other GUIs used for developing applicationsUse toolkits such as axisartist axes_grid1 and cartopy to extend the base functionality of MatplotlibWho this book is for The Matplotlib 3 0

Cookbook is for you if you are a data analyst data scientist or Python developer looking for quick recipes for a multitude of visualizations This book is also for those who want to build variations of interactive visualizations **TensorFlow 1. X Deep Learning Cookbook** Antonio Gulli,Amita Kapoor,2017-12-11 Take the next step in implementing various common and not so common neural networks with Tensorflow 1 xAbout This Book Skill up and implement tricky neural networks using Google s TensorFlow 1 x An easy to follow guide that lets you explore reinforcement learning GANs autoencoders multilayer perceptrons and more Hands on recipes to work with Tensorflow on desktop mobile and cloud environmentWho This Book Is ForThis book is intended for data analysts data scientists machine learning practitioners and deep learning enthusiasts who want to perform deep learning tasks on a regular basis and are looking for a handy guide they can refer to People who are slightly familiar with neural networks and now want to gain expertise in working with different types of neural networks and datasets will find this book quite useful What You Will Learn Install TensorFlow and use it for CPU and GPU operations Implement DNNs and apply them to solve different AI driven problems Leverage different data sets such as MNIST CIFAR 10 and Youtube8m with TensorFlow and learn how to access and use them in your code Use TensorBoard to understand neural network architectures optimize the learning process and peek inside the neural network black box Use different regression techniques for prediction and classification problems Build single and multilayer perceptrons in TensorFlow Implement CNN and RNN in TensorFlow and use it to solve real world use cases Learn how restricted Boltzmann Machines can be used to recommend movies Understand the implementation of Autoencoders and deep belief networks and use them for emotion detection Master the different reinforcement learning methods to implement game playing agents GANs and their implementation using TensorFlow In DetailDeep neural networks DNNs have achieved a lot of success in the field of computer vision speech recognition and natural language processing The entire world is filled with excitement about how deep networks are revolutionizing artificial intelligence This exciting recipe based guide will take you from the realm of DNN theory to implementing them practically to solve the real life problems in artificial intelligence domain In this book you will learn how to efficiently use TensorFlow Google s open source framework for deep learning You will implement different deep learning networks such as Convolutional Neural Networks CNNs Recurrent Neural Networks RNNs Deep Q learning Networks DQNs and Generative Adversarial Networks GANs with easy to follow independent recipes You will learn how to make Keras as backend with TensorFlow With a problem solution approach you will understand how to implement different deep neural architectures to carry out complex tasks at work You will learn the performance of different DNNs on some popularly used data sets such as MNIST CIFAR 10 Youtube8m and more You will not only learn about the different mobile and embedded platforms supported by TensorFlow but also how to set up cloud platforms for deep learning applications Get a sneak peek of TPU architecture and how they will affect DNN future By using crisp no nonsense recipes you will become an expert in implementing deep learning techniques in growing real world applications and research areas such as

reinforcement learning GANs autoencoders and more Style and approachThis book consists of hands on recipes where you ll deal with real world problems You ll execute a series of tasks as you walk through data mining challenges using TensorFlow 1 x Your one stop solution for common and not so common pain points this is a book that you must have on the shelf

Splunk Operational Intelligence Cookbook Josh Diakun,Paul R Johnson,Derek Mock,2014-10-31 This book is intended for users of all levels who are looking to leverage the Splunk Enterprise platform as a valuable operational intelligence tool The recipes provided in this book will appeal to individuals from all facets of a business IT Security Product Marketing and many more   **Polars Cookbook** Yuki Kakegawa,2024-08-23 Leverage Polars a lightning fast DataFrame library to transform your Python based data science projects with efficient data wrangling and manipulation Key Features Unlock the power of Python Polars for faster and more efficient data analysis workflows Master the fundamentals of Python Polars with step by step recipes Discover data manipulation techniques to apply across multiple data problems Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionThe Polars Cookbook is a comprehensive hands on guide to Python Polars one of the first resources dedicated to this powerful data processing library Written by Yuki Kakegawa a seasoned data analytics consultant who has worked with industry leaders like Microsoft and Stanford Health Care this book offers targeted real world solutions to data processing manipulation and analysis challenges The book also includes a foreword by Marco Gorelli a core contributor to Polars ensuring expert insights into Polars applications From installation to advanced data operations you ll be guided through data manipulation advanced querying and performance optimization techniques You ll learn to work with large datasets conduct sophisticated transformations leverage powerful features like chaining and understand its caveats This book also shows you how to integrate Polars with other Python libraries such as pandas numpy and PyArrow and explore deployment strategies for both on premises and cloud environments like AWS BigQuery GCS Snowflake and S3 With use cases spanning data engineering time series analysis statistical analysis and machine learning Polars Cookbook provides essential techniques for optimizing and securing your workflows By the end of this book you ll possess the skills to design scalable efficient and reliable data processing solutions with Polars What you will learn Read from different data sources and write to various files and databases Apply aggregations window functions and string manipulations Perform common data tasks such as handling missing values and performing list and array operations Discover how to reshape and tidy your data by pivoting joining and concatenating Analyze your time series data in Python Polars Create better workflows with testing and debugging Who this book is for This book is for data analysts data scientists and data engineers who want to learn how to use Polars in their workflows Working knowledge of the Python programming language is required Experience working with a DataFrame library such as pandas or PySpark will also be helpful   Machine Learning For Business RICHARD. ARAGON,2023-09-29 Master practical machine learning techniques with this hands on guide Machine Learning for Business A Developer s Cookbook provides over 50 practical recipes that teach developers the essential skills for applying machine

learning to real world business problems Written by experienced data scientist Richard Aragon this cookbook offers actionable solutions for tasks like customer churn prediction sales forecasting sentiment analysis and more The book is organized into chapters based on business functions and departments You ll find targeted recipes for sales marketing customer service HR finance and other teams Each recipe includes clear explanations of the machine learning algorithms used with code examples in Python demonstrating how to implement the techniques step by step Key features Over 50 hands on recipes covering predictive modeling natural language processing reinforcement learning and optimization techniques Practical solutions for common business use cases like predicting customer churn forecasting sales analyzing customer sentiment and detecting fraudulent transactions Code examples in Python with detailed walkthroughs for implementing machine learning algorithms and models Focus on actionable solutions to real business problems faced by sales marketing HR finance and other departments Recipes organized by department and business function for quick look up of relevant techniques Whether you re a business analyst data scientist engineer or an experienced machine learning practitioner this cookbook equips you with practical skills to solve real world problems The hands on recipes take you from the basics of preparing and cleaning data all the way to deploying complex deep learning models Master practical machine learning through easy to follow examples and start driving business impact through applied artificial intelligence and predictive modeling with Machine Learning for Business A Developer s Cookbook **Time Series Analysis with Python Cookbook - Second Edition** Tarek A. Atwan,2026-01-23 To use time series data to your advantage you need to be well versed in data preparation analysis and forecasting This fully updated second edition includes chapters on probabilistic models and signal processing techniques as well as new content on transformers Additionally you will leverage popular libraries and their latest releases covering Pandas Polars Sktime stats models stats forecast Darts and Prophet for time series with new and relevant examples You ll start by ingesting time series data from various sources and formats and learn strategies for handling missing data dealing with time zones and custom business days and detecting anomalies using intuitive statistical methods Further you ll explore forecasting using classical statistical models Holt Winters SARIMA and VAR Learn practical techniques for handling non stationary data using power transforms ACF and PACF plots and decomposing time series data with multiple seasonal patterns Then we will move into more advanced topics such as building ML and DL models using TensorFlow and PyTorch and explore probabilistic modeling techniques In this part you ll also learn how to evaluate compare and optimize models making sure that you finish this book well versed in wrangling data with Python **Artificial Intelligence with Python Cookbook** Ben Auffarth,2020-10-30 Work through practical recipes to learn how to solve complex machine learning and deep learning problems using Python Key FeaturesGet up and running with artificial intelligence in no time using hands on problem solving recipesExplore popular Python libraries and tools to build AI solutions for images text sounds and imagesImplement NLP reinforcement learning deep learning GANs Monte Carlo tree search and

much moreBook Description Artificial intelligence AI plays an integral role in automating problem solving This involves predicting and classifying data and training agents to execute tasks successfully This book will teach you how to solve complex problems with the help of independent and insightful recipes ranging from the essentials to advanced methods that have just come out of research Artificial Intelligence with Python Cookbook starts by showing you how to set up your Python environment and taking you through the fundamentals of data exploration Moving ahead you ll be able to implement heuristic search techniques and genetic algorithms In addition to this you ll apply probabilistic models constraint optimization and reinforcement learning As you advance through the book you ll build deep learning models for text images video and audio and then delve into algorithmic bias style transfer music generation and AI use cases in the healthcare and insurance industries Throughout the book you ll learn about a variety of tools for problem solving and gain the knowledge needed to effectively approach complex problems By the end of this book on AI you will have the skills you need to write AI and machine learning algorithms test them and deploy them for production What you will learnImplement data preprocessing steps and optimize model hyperparametersDelve into representational learning with adversarial autoencodersUse active learning recommenders knowledge embedding and SAT solversGet to grips with probabilistic modeling with TensorFlow probabilityRun object detection text to speech conversion and text and music generationApply swarm algorithms multi agent systems and graph networksGo from proof of concept to production by deploying models as microservicesUnderstand how to use modern AI in practiceWho this book is for This AI machine learning book is for Python developers data scientists machine learning engineers and deep learning practitioners who want to learn how to build artificial intelligence solutions with easy to follow recipes You ll also find this book useful if you re looking for state of the art solutions to perform different machine learning tasks in various use cases Basic working knowledge of the Python programming language and machine learning concepts will help you to work with code effectively in this book   Python Data Visualization Cookbook Igor Milovanovic,Dimitry Foures,Giuseppe Vettigli,2015-11-30 Over 70 recipes to get you started with popular Python libraries based on the principal concepts of data visualization About This Book Learn how to set up an optimal Python environment for data visualization Understand how to import clean and organize your data Determine different approaches to data visualization and how to choose the most appropriate for your needs Who This Book Is For If you already know about Python programming and want to understand data data formats data visualization and how to use Python to visualize data then this book is for you What You Will Learn Introduce yourself to the essential tooling to set up your working environment Explore your data using the capabilities of standard Python Data Library and Panda Library Draw your first chart and customize it Use the most popular data visualization Python libraries Make 3D visualizations mainly using mplot3d Create charts with images and maps Understand the most appropriate charts to describe your data Know the matplotlib hidden gems Use plot ly to share your visualization online In Detail Python Data Visualization Cookbook will progress the reader from the point of

installing and setting up a Python environment for data manipulation and visualization all the way to 3D animations using Python libraries Readers will benefit from over 60 precise and reproducible recipes that will guide the reader towards a better understanding of data concepts and the building blocks for subsequent and sometimes more advanced concepts Python Data Visualization Cookbook starts by showing how to set up matplotlib and the related libraries that are required for most parts of the book before moving on to discuss some of the lesser used diagrams and charts such as Gantt Charts or Sankey diagrams Initially it uses simple plots and charts to more advanced ones to make it easy to understand for readers As the readers will go through the book they will get to know about the 3D diagrams and animations Maps are irreplaceable for displaying geo spatial data so this book will also show how to build them In the last chapter it includes explanation on how to incorporate matplotlib into different environments such as a writing system LaTeX or how to create Gantt charts using Python Style and approach A step by step recipe based approach to data visualization The topics are explained sequentially as cookbook recipes consisting of a code snippet and the resulting visualization

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