Michael Heydt

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Yehia Elghaly

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   Python Data Analysis Avinash Navlani,Armando Fandango,Ivan Idris,2021-02-05 Understand data analysis pipelines using machine learning algorithms and techniques with this practical guide Key FeaturesPrepare and clean your data to use it for exploratory analysis data manipulation and data wranglingDiscover supervised unsupervised probabilistic and Bayesian machine learning methodsGet to grips with graph processing and sentiment analysisBook Description Data analysis enables you to generate value from small and big data by discovering new patterns and trends and Python is one of the most popular tools for analyzing a wide variety of data With this book you ll get up and running using Python for data analysis by exploring the different phases and methodologies used in data analysis and learning how to use modern libraries from the Python ecosystem to create efficient data pipelines Starting with the essential statistical and data analysis fundamentals using Python you ll perform complex data analysis and modeling data manipulation data cleaning and data visualization using easy to follow examples You ll then understand how to conduct time series analysis and signal processing using ARMA models As you advance you ll get to grips with smart processing and data analytics using machine learning algorithms such as regression classification Principal Component Analysis PCA and clustering In the concluding chapters you ll work on real world examples to analyze textual and image data using natural language processing NLP and image analytics techniques respectively Finally the book will demonstrate parallel computing using Dask By the end of this data analysis book you ll be equipped with the skills you need to prepare data for analysis and create meaningful data visualizations for forecasting values from data What you will learnExplore data science and its various process modelsPerform data manipulation using NumPy and pandas for aggregating cleaning and handling missing valuesCreate interactive visualizations using Matplotlib Seaborn and BokehRetrieve process and store data in a wide range of formatsUnderstand data preprocessing and feature engineering using pandas and scikit learnPerform time series analysis and signal processing using sunspot cycle dataAnalyze textual data and image data to perform advanced analysisGet up to speed with parallel computing using DaskWho this book is for This book is for data analysts business analysts statisticians and data scientists looking to learn how to use Python for data analysis Students and academic faculties will also find this book useful for learning and teaching Python data analysis using a hands on approach A basic understanding of math and working knowledge of the Python programming language will help you get started with this book   Learning pandas Michael Heydt,2015-04-16 If you are a Python programmer who wants to get started with performing data analysis using pandas and Python this is the book for you Some experience with statistical analysis would be helpful but is not mandatory   *AI-Driven Digital Growth with Python* Engr. Motaher Hossain,2026-02-18 Artificial Intelligence is no longer the future it is the foundation of modern digital growth AI Driven Digital Growth with Python is a comprehensive end to end guide that bridges the gap between theoretical machine learning and real world digital business applications This book is designed for professionals developers digital marketers researchers

and entrepreneurs who want to master AI deep learning and intelligent automation using Python and TensorFlow Unlike surface level AI books this volume takes readers from fundamental machine learning concepts to advanced production ready deep learning systems The journey begins with Machine Learning model fundamentals Bias variance overfitting regularization Semi supervised learning techniques Graph based learning Bayesian networks Hidden Markov Models EM algorithm and probabilistic models Clustering and advanced neural models It then transitions into practical deep learning with TensorFlow and Keras covering CNNs RNNs LSTMs GRUs Autoencoders and Variational Autoencoders GANs Generative Adversarial Networks Deep Reinforcement Learning Distributed TensorFlow clusters TensorFlow debugging and production deployment TensorFlow Serving with Docker Kubernetes The book further dives into real world AI applications Image classification AlexNet VGG ResNet Inception DenseNet Object detection R CNN Faster R CNN YOLO SSD Semantic segmentation DeepLab FCN SegNet Image retrieval systems Similarity learning Siamese networks Face recognition and landmark detection Production deployment strategies This is not just an academic book it is a complete AI engineering blueprint guiding readers from mathematical foundations to scalable deployment pipelines Who This Book Is For AI Machine Learning Engineers Python Developers Data Scientists Deep Learning Researchers Digital Growth Strategists SEO Automation Professionals Startup Founders building AI products Computer Science Students What Makes This Book Different Strong mathematical foundations Practical TensorFlow Keras implementations Production ready AI deployment guidance Coverage of classical ML modern deep learning Real world computer vision applications Distributed and scalable AI infrastructure This book transforms readers from AI learners into AI builders About the Author Engr Motaher Hossain is a Computer Science Engineering professional AI strategist and digital growth architect specializing in Python based automation machine learning systems and scalable AI driven business solutions With a strong foundation in artificial intelligence SEO engineering and automation systems he focuses on integrating deep learning into real world digital ecosystems His expertise spans AI system architecture TensorFlow Keras model development Intelligent automation pipelines Search engine optimization SEO engineering Data driven digital growth strategies Production grade ML deployment As a technology entrepreneur and AI researcher Engr Motaher Hossain advocates practical AI systems that are not only mathematically sound but commercially scalable This book reflects his vision of merging Artificial Intelligence Automation SEO Scalable Online Business into one unified digital growth framework Author s Vision According to Engr Motaher Hossain Artificial Intelligence should not remain inside research papers It must power real businesses automate decision making and create scalable digital ecosystems He believes the future belongs to professionals who can combine Data science Software engineering Cloud deployment Automation Business strategy This book is written to build exactly that skillset Why This Book Matters Now We are living in an era where AI models power search engines Deep learning drives computer vision Reinforcement learning optimizes decision systems Automation determines competitive advantage

Organizations that fail to integrate AI into their digital growth strategy risk becoming obsolete This book provides the complete roadmap Technical Coverage Includes Machine Learning Theory Semi Supervised Learning Graph Learning Bayesian Inference EM Algorithm Clustering Deep Neural Networks CNN RNN LSTM GRU Autoencoders GANs Reinforcement Learning TensorFlow Production Docker Kubernetes AI deployment Computer Vision Systems Face Recognition Similarity Learning Final Note AI Driven Digital Growth with Python is more than a technical manual It is a strategic guide for building intelligent scalable and future ready digital systems Whether you are an aspiring AI engineer or a digital entrepreneur aiming to dominate the next era of online business this book equips you with the knowledge architecture and execution strategies required to lead   **Data Analysis for Corporate Finance** Mariano F. Scandizzo CFA CQF,2021-12-07 Have you ever tried to learn to code or to use advanced visualization tools If so I am sure you know how daunting it is to learn by yourself Generally tools and books follow an encyclopedism approach i e books attempt to teach every feature about a coding language or tool This implies hundreds if not thousands of pages simply to tackle a single topic whether SQL Python MS Excel MS PowerBI you name it The journey from zero to hero to become proficient using numerical and visualization tools to take your career to the next level becomes an ordeal that requires years and thousands of pages just to begin putting the pieces of the puzzle together However the reality is that you do not need to learn absolutely every available feature to use those tools and deliver a superior project Rather than teaching you about the forest I will discuss specific trees Why Because once you become familiar and confident nurturing a few trees growing a forest becomes a simple process of planting new trees This book provides the fundamental blocks so that you can learn about financial data science and take these tools and start using them tomorrow The scope of the selected tools will empower you to see a considerable improvement in your financial modeling skills The book is designed to provide corporate finance professionals the ability to start immediately using advance tools for concrete real world tasks Therefore this book is all about functionalism It is about providing you with tools that will put you to work and dramatically change the way you analyze data Once you see the benefits it will become natural to keep expanding your domain knowledge leveraging today s endless available educational resources   *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 **Advances on P2P, Parallel, Grid, Cloud and Internet Computing** Leonard Barolli,2024-11-16 This book aims to provide the latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to P2P Parallel Grid Cloud and Internet computing and to reveal synergies among such large scale computing paradigms P2P Grid Cloud and Internet computing technologies have been very fast established as breakthrough paradigms for solving complex problems by enabling aggregation and sharing of an increasing variety of distributed computational resources at large scale Grid Computing originated as a paradigm for high performance computing as an alternative to expensive supercomputers through different forms of large scale distributed computing P2P Computing emerged as a new paradigm after client server and web based computing and has shown useful to the development of social networking business to business B2B business to consumer B2C business to government B2G business to employee B2E and so on Parallel Computing is an essential computational paradigm for solving complicated problems quickly It divides a scientific computing problem into several small computing tasks and concurrently runs these tasks by utilizing parallel hardware and overcoming the memory constraint Parallel computing is an important part of cloud environment However there are significant

differences between cloud computing and parallel computing Cloud Computing has been defined as a computing paradigm where the boundaries of computing are determined by economic rationale rather than technical limits Cloud computing has fast become the computing paradigm with applicability and adoption in all application domains and providing utility computing at large scale Finally Internet Computing is the basis of any large scale distributed computing paradigms it has very fast developed into a vast area of flourishing field with enormous impact on today s information societies serving thus as a universal platform comprising a large variety of computing forms such as Grid P2P Cloud and mobile computing **Learn Penetration Testing with Python 3.x** Yehia Elghaly,2024-05-20 Master Python 3 to develop your offensive arsenal tools and exploits for ethical hacking and red teaming KEY FEATURES Exciting coverage on red teaming methodologies and penetration testing techniques Explore the exploitation development environment and process of creating exploit scripts This edition includes network protocol cracking brute force attacks network monitoring WiFi cracking web app enumeration Burp Suite extensions fuzzing and ChatGPT integration DESCRIPTION This book starts with an understanding of penetration testing and red teaming methodologies and teaches Python 3 from scratch for those who are not familiar with programming The book also guides on how to create scripts for cracking and brute force attacks The second part of this book will focus on network and wireless level The book will teach you the skills to create an offensive tool using Python 3 to identify different services and ports You will learn how to use different Python network modules and conduct network attacks In the network monitoring section you will be able to monitor layer 3 and 4 Finally you will be able to conduct different wireless attacks The third part of this book will focus on web applications and exploitation developments It will start with how to create scripts to extract web information such as links images documents etc We will then move to creating scripts for identifying and exploiting web vulnerabilities and how to bypass web application firewall It will move to a more advanced level to create custom Burp Suite extensions that will assist you in web application assessments This edition brings chapters that will be using Python 3 in forensics and analyze different file extensions The next chapters will focus on fuzzing and exploitation development starting with how to play with stack moving to how to use Python in fuzzing and creating exploitation scripts Finally it will give a guide on how to use ChatGPT to create and enhance your Python 3 scripts WHAT YOU WILL LEARN Learn to code Python scripts from scratch to prevent network attacks and web vulnerabilities Conduct network attacks create offensive tools and identify vulnerable services and ports Perform deep monitoring of network up to layers 3 and 4 Execute web scraping scripts to extract images documents and links Use Python 3 in forensics and analyze different file types Use ChatGPT to enhance your Python 3 scripts WHO THIS BOOK IS FOR This book is for penetration testers security researchers red teams security auditors and IT administrators who want to start with an action plan in protecting their IT systems All you need is some basic understanding of programming concepts and working of IT systems TABLE OF CONTENTS 1 Starting with Penetration Testing and Basic Python 2 Cracking with Python 3 3 Service and Applications Brute

Forcing with Python 4 Python Services Identifications Ports and Banner 5 Python Network Modules and Nmap 6 Network Monitoring with Python 7 Attacking Wireless with Python 8 Analyzing Web Applications with Python 9 Attacking Web Applications with Python 10 Exploit Development with Python 11 Forensics with Python 12 Python with Burp Suite 13 Fuzzing with Python 14 ChatGPT with Python **Introduction to Python in Earth Science Data Analysis** Maurizio Petrelli,2021-09-16 This textbook introduces the use of Python programming for exploring and modelling data in the field of Earth Sciences It drives the reader from his very first steps with Python like setting up the environment and starting writing the first lines of codes to proficient use in visualizing analyzing and modelling data in the field of Earth Science Each chapter contains explicative examples of code and each script is commented in detail The book is minded for very beginners in Python programming and it can be used in teaching courses at master or PhD levels Also Early careers and experienced researchers who would like to start learning Python programming for the solution of geological problems will benefit the reading of the book **Learning Pandas - Second Edition** Michael Heydt,2017-06-30 Get to grips with pandas a versatile and high performance Python library for data manipulation analysis and discoveryAbout This Book Get comfortable using pandas and Python as an effective data exploration and analysis tool Explore pandas through a framework of data analysis with an explanation of how pandas is well suited for the various stages in a data analysis process A comprehensive guide to pandas with many of clear and practical examples to help you get up and using pandasWho This Book Is ForThis book is ideal for data scientists data analysts Python programmers who want to plunge into data analysis using pandas and anyone with a curiosity about analyzing data Some knowledge of statistics and programming will be helpful to get the most out of this book but not strictly required Prior exposure to pandas is also not required What You Will Learn Understand how data analysts and scientists think about of the processes of gathering and understanding data Learn how pandas can be used to support the end to end process of data analysis Use pandas Series and DataFrame objects to represent single and multivariate data Slicing and dicing data with pandas as well as combining grouping and aggregating data from multiple sources How to access data from external sources such as files databases and web services Represent and manipulate time series data and the many of the intricacies involved with this type of data How to visualize statistical information How to use pandas to solve several common data representation and analysis problems within financeIn DetailYou will learn how to use pandas to perform data analysis in Python You will start with an overview of data analysis and iteratively progress from modeling data to accessing data from remote sources performing numeric and statistical analysis through indexing and performing aggregate analysis and finally to visualizing statistical data and applying pandas to finance With the knowledge you gain from this book you will quickly learn pandas and how it can empower you in the exciting world of data manipulation analysis and science Style and approach Step by step instruction on using pandas within an end to end framework of performing data analysis Practical demonstration of using Python and pandas using interactive and incremental examples **Hands-On**

Data Analysis with Pandas Stefanie Molin,2021-04-29 Get to grips with pandas by working with real datasets and master data discovery data manipulation data preparation and handling data for analytical tasks Key Features Perform efficient data analysis and manipulation tasks using pandas 1 x Apply pandas to different real world domains with the help of step by step examples Make the most of pandas as an effective data exploration tool Book DescriptionExtracting valuable business insights is no longer a nice to have but an essential skill for anyone who handles data in their enterprise Hands On Data Analysis with Pandas is here to help beginners and those who are migrating their skills into data science get up to speed in no time This book will show you how to analyze your data get started with machine learning and work effectively with the Python libraries often used for data science such as pandas NumPy matplotlib seaborn and scikit learn Using real world datasets you will learn how to use the pandas library to perform data wrangling to reshape clean and aggregate your data Then you will learn how to conduct exploratory data analysis by calculating summary statistics and visualizing the data to find patterns In the concluding chapters you will explore some applications of anomaly detection regression clustering and classification using scikit learn to make predictions based on past data This updated edition will equip you with the skills you need to use pandas 1 x to efficiently perform various data manipulation tasks reliably reproduce analyses and visualize your data for effective decision making valuable knowledge that can be applied across multiple domains What you will learn Understand how data analysts and scientists gather and analyze data Perform data analysis and data wrangling using Python Combine group and aggregate data from multiple sources Create data visualizations with pandas matplotlib and seaborn Apply machine learning algorithms to identify patterns and make predictions Use Python data science libraries to analyze real world datasets Solve common data representation and analysis problems using pandas Build Python scripts modules and packages for reusable analysis code Who this book is for This book is for data science beginners data analysts and Python developers who want to explore each stage of data analysis and scientific computing using a wide range of datasets Data scientists looking to implement pandas in their machine learning workflow will also find plenty of valuable know how as they progress You ll find it easier to follow along with this book if you have a working knowledge of the Python programming language but a Python crash course tutorial is provided in the code bundle for anyone who needs a refresher *Subject Guide to Books in Print* ,1993 *Books in Print Supplement* ,2002 *Learning pandas* Michael Heydt,2017-06-30 Get to grips with pandas a versatile and high performance Python library for data manipulation analysis and discovery About This Book Get comfortable using pandas and Python as an effective data exploration and analysis tool Explore pandas through a framework of data analysis with an explanation of how pandas is well suited for the various stages in a data analysis process A comprehensive guide to pandas with many of clear and practical examples to help you get up and using pandas Who This Book Is For This book is ideal for data scientists data analysts Python programmers who want to plunge into data analysis using pandas and anyone with a curiosity about analyzing data Some knowledge of statistics and programming will be helpful

to get the most out of this book but not strictly required Prior exposure to pandas is also not required What You Will Learn Understand how data analysts and scientists think about of the processes of gathering and understanding data Learn how pandas can be used to support the end to end process of data analysis Use pandas Series and DataFrame objects to represent single and multivariate data Slicing and dicing data with pandas as well as combining grouping and aggregating data from multiple sources How to access data from external sources such as files databases and web services Represent and manipulate time series data and the many of the intricacies involved with this type of data How to visualize statistical information How to use pandas to solve several common data representation and analysis problems within finance In Detail You will learn how to use pandas to perform data analysis in Python You will start with an overview of data analysis and iteratively progress from modeling data to accessing data from remote sources performing numeric and statistical analysis through indexing and performing aggregate analysis and finally to visualizing statistical data and applying pandas to finance With the knowledge you gain from this book you will quickly learn pandas and how it can empower you in the exciting world of data manipulation analysis and science Style and approach Step by step instruction on using pandas within an end to end framework of performing data analysis Practical demonstration of using Python and pandas using interactive and incremental examples **El-Hi Textbooks and Serials in Print, 1995** R R Bowker Publishing,1995-02 **Mastering Pandas - Second Edition** Ashish Kumar,2019 Perform advanced data manipulation tasks using pandas and become an expert data analyst Key Features Manipulate and analyze your data expertly using the power of pandas Work with missing data and time series data and become a true pandas expert Includes expert tips and techniques on making your data analysis tasks easier Book Description pandas is a popular Python library used by data scientists and analysts worldwide to manipulate and analyze their data This book presents useful data manipulation techniques in pandas to perform complex data analysis in various domains An update to our highly successful previous edition with new features examples updated code and more this book is an in depth guide to get the most out of pandas for data analysis Designed for both intermediate users as well as seasoned practitioners you will learn advanced data manipulation techniques such as multi indexing modifying data structures and sampling your data which allow for powerful analysis and help you gain accurate insights from it With the help of this book you will apply pandas to different domains such as Bayesian statistics predictive analytics and time series analysis using an example based approach And not just that you will also learn how to prepare powerful interactive business reports in pandas using the Jupyter notebook By the end of this book you will learn how to perform efficient data analysis using pandas on complex data and become an expert data analyst or data scientist in the process What you will learn Speed up your data analysis by importing data into pandas Keep relevant data points by selecting subsets of your data Create a high quality dataset by cleaning data and fixing missing values Compute actionable analytics with grouping and aggregation in pandas Master time series data analysis in pandas Make powerful reports in pandas using Jupyter notebooks Who this book is for

This book is for data scientists analysts and Python developers who wish to explore advanced data analysis and scientific computing techniques using pandas Some fundamental understanding of Python programming and familiarity with the basic data analysis concepts is all you need to get started with this book   **The Times Index** ,1985 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement   **The The Applied Data Science Workshop** Alex Galea,2020-07-22 Designed with beginners in mind this workshop helps you make the most of Python libraries and the Jupyter Notebook s functionality to understand how data science can be applied to solve real world data problems Key FeaturesGain useful insights into data science and machine learningExplore the different functionalities and features of a Jupyter NotebookDiscover how Python libraries are used with Jupyter for data analysisBook Description From banking and manufacturing through to education and entertainment using data science for business has revolutionized almost every sector in the modern world It has an important role to play in everything from app development to network security Taking an interactive approach to learning the fundamentals this book is ideal for beginners You ll learn all the best practices and techniques for applying data science in the context of real world scenarios and examples Starting with an introduction to data science and machine learning you ll start by getting to grips with Jupyter functionality and features You ll use Python libraries like sci kit learn pandas Matplotlib and Seaborn to perform data analysis and data preprocessing on real world datasets from within your own Jupyter environment Progressing through the chapters you ll train classification models using sci kit learn and assess model performance using advanced validation techniques Towards the end you ll use Jupyter Notebooks to document your research build stakeholder reports and even analyze web performance data By the end of The Applied Data Science Workshop you ll be prepared to progress from being a beginner to taking your skills to the next level by confidently applying data science techniques and tools to real world projects What you will learnUnderstand the key opportunities and challenges in data scienceUse Jupyter for data science tasks such as data analysis and modelingRun exploratory data analysis within a Jupyter NotebookVisualize data with pairwise scatter plots and segmented distributionAssess model performance with advanced validation techniquesParse HTML responses and analyze HTTP requestsWho this book is for If you are an aspiring data scientist who wants to build a career in data science or a developer who wants to explore the applications of data science from scratch and analyze data in Jupyter using Python libraries then this book is for you Although a brief understanding of Python programming and machine learning is recommended to help you grasp the topics covered in the book more quickly it is not mandatory   Learning IPython for Interactive Computing and Data Visualization Cyrille Rossant,2015-10-21 Get started with Python for data analysis and numerical computing in the Jupyter notebook About This Book Learn the basics of Python in the Jupyter Notebook Analyze and visualize data with pandas NumPy matplotlib and seaborn Perform highly efficient numerical computations with Numba Cython and ipyparallel Who This Book Is For This book targets students

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you will learn Speed up your data analysis by importing data into pandas Keep relevant data points by selecting subsets of your data Create a high quality dataset by cleaning data and fixing missing values Compute actionable analytics with grouping and aggregation in pandas Master time series data analysis in pandas Make powerful reports in pandas using Jupyter notebooks Who this book is for This book is for data scientists analysts and Python developers who wish to explore advanced data analysis and scientific computing techniques using pandas Some fundamental understanding of Python programming and familiarity with the basic data analysis concepts is all you need to get started with this book   Pandas 1. X Cookbook Matt Harrison,Theodore Petrou,2020-02-27 Use the power of pandas to solve most complex scientific computing problems with ease Revised for pandas 1 x Key Features This is the first book on pandas 1 x Practical easy to implement recipes for quick solutions to common problems in data using pandas Master the fundamentals of pandas to quickly begin exploring any dataset Book Description The pandas library is massive and it s common for frequent users to be unaware of many of its more impressive features The official pandas documentation while thorough does not contain many useful examples of how to piece together multiple commands as one would do during an actual analysis This book guides you as if you were looking over the shoulder of an expert through situations that you are highly likely to encounter This new updated and revised edition provides you with unique idiomatic and fun recipes for both fundamental and advanced data manipulation tasks with pandas Some recipes focus on achieving a deeper understanding of basic principles or comparing and contrasting two similar operations Other recipes will dive deep into a particular dataset uncovering new and unexpected insights along the way Many advanced recipes combine several different features across the pandas library to generate results What you will learn Master data exploration in pandas through dozens of practice problems Group aggregate transform reshape and filter data Merge data from different sources through pandas SQL like operations Create visualizations via pandas hooks to matplotlib and seaborn Use pandas time series functionality to perform powerful analyses Import clean and prepare real world datasets for machine learning Create workflows for processing big data that doesn t fit in memory Who this book is for This book is for Python developers data scientists engineers and analysts Pandas is the ideal tool for manipulating structured data with Python and this book provides ample instruction and examples Not only does it cover the basics required to be proficient but it goes into the details of idiomatic pandas

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Learning Pandas Second Edition Packt S Introduction

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