

# Learning The Pandas Library Python Tools For Data Munging Analysis And Visual

## Embark on a Transformative Voyage with 'Learning The Pandas Library'

Prepare to be utterly captivated by "Learning The Pandas Library: Python Tools For Data Munging, Analysis, And Visual." This is not merely a technical manual; it is an invitation to a vibrant, imaginative landscape where the art of data manipulation unfolds with breathtaking elegance. From the very first page, readers are transported to a realm brimming with intellectual wonder, where complex concepts are not just explained, but woven into a narrative that resonates deeply, regardless of your background or age.

The true magic of this book lies in its extraordinary ability to imbue the often-daunting world of data science with profound emotional depth. The authors have masterfully crafted an experience that feels less like a lesson and more like a shared adventure. You will find yourself empathizing with the challenges of data wrangling, celebrating the breakthroughs in analysis, and marveling at the visual stories that emerge from meticulously organized information. This emotional resonance makes the learning process not only effective but truly enjoyable, fostering a connection with the material that transcends typical academic pursuits.

The universal appeal of "Learning The Pandas Library" is nothing short of remarkable. Whether you are a seasoned professional seeking to refine your data skills, a student embarking on your academic journey, or an academic researcher eager to leverage powerful analytical tools, this book offers a treasure trove of knowledge. Its clear, concise explanations, coupled with compelling examples, ensure that the principles of Pandas are accessible and engaging for all. The authors have struck a perfect chord, balancing technical rigor with an approachable and encouraging tone that empowers every reader to confidently navigate the intricacies of data manipulation.

### Key Strengths That Illuminate This Masterpiece:

**Imaginative Setting:** The book transcends its subject matter by creating an immersive learning environment that sparks curiosity and fosters a genuine love for data exploration.

**Emotional Depth:** Readers will experience a genuine connection to the process of data analysis, making the learning journey both rewarding and memorable.

**Universal Appeal:** Expertly tailored for professionals, students, and academics alike, this book demystifies complex topics with clarity and engaging prose.

**Practical Mastery:** Gain unparalleled proficiency in data munging, analysis, and visualization through hands-on examples and insightful guidance.

**Empowering Knowledge:** Develop the confidence to tackle any data challenge with the powerful toolkit provided by the Pandas library.

To recommend "Learning The Pandas Library" is to endorse an experience that will undoubtedly enrich your understanding and ignite your passion for data. It is a timeless classic that continues to capture hearts worldwide because it achieves something truly special: it makes learning about data not just educational, but an exhilarating and deeply satisfying quest. For those seeking to unlock the full potential of their data, or simply to embark on a journey of intellectual discovery, this book is an indispensable companion. Do not miss the opportunity to experience this magical voyage for yourself.

**A Heartfelt Recommendation:** This book is an essential guide for anyone venturing into the world of data analysis. Its unique blend of technical expertise and engaging narrative makes it a standout resource that continues to inspire and empower readers across the globe. It is a testament to the power of accessible education and a cornerstone for anyone serious about mastering data science.

**Strong Recommendation for Enduring Impact:** "Learning The Pandas Library" is more than just a book; it is an investment in your intellectual growth and a gateway to countless possibilities. Its lasting impact is evident in the countless individuals who have transformed their approach to data thanks to its insightful teachings. Experience this timeless classic and witness the profound difference it can make in your educational journey.

Comprehensive Guide to the Pandas Library: Unlocking Data Manipulation and Analysis in Python  
Thinking in Pandas  
Learning the Pandas Library  
Hands-on Data Analysis and Visualization with Pandas  
Introduction to Data Science with Python  
Pandas for Everyone  
Python for Artificial Intelligence and Data Science  
Python for Data Analysis  
Head First Python  
Learning pandas  
Python for Data Analysis  
Python Essentials for Biomedical Data Analysis: An Introductory Textbook  
Python for SAS Users  
Hands-On Data Analysis with Pandas  
Python for Data Analysis  
Python for Excel Users  
A Gentle Introduction to Effective Computing in Quantitative Research  
Introduction to Text Analytics  
Pandas in 7 Days  
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Nelli*

welcome to comprehensive guide to the pandas library unlocking data manipulation  
and analysis in python an all encompassing resource crafted to elevate your data  
manipulation and analytical prowess using the robust pandas library in python pandas  
has transformed the landscape for data scientists and analysts by providing a versatile  
toolkit for working with structured data making complex data handling tasks both  
intuitive and efficient this guide delves into the core techniques of pandas programming  
with each chapter dedicated to exploring different dimensions of the library s extensive  
capabilities our goal is not just to convey information but to cultivate a deep  
understanding and instinct for sophisticated data management rich in substance and  
clarity each section serves as a building block towards mastering intricate operations  
through pandas advanced functionalities

understand and implement big data analysis solutions in pandas with an emphasis on  
performance this book strengthens your intuition for working with pandas the python  
data analysis library by exploring its underlying implementation and data structures  
thinking in pandas introduces the topic of big data and demonstrates concepts by  
looking at exciting and impactful projects that pandas helped to solve from there you  
will learn to assess your own projects by size and type to see if pandas is the  
appropriate library for your needs author hannah stepanek explains how to load and  
normalize data in pandas efficiently and reviews some of the most commonly used  
loaders and several of their most powerful options you will then learn how to access  
and transform data efficiently what methods to avoid and when to employ more  
advanced performance techniques you will also go over basic data access and  
munging in pandas and the intuitive dictionary syntax choosing the right dataframe  
format working with multi level dataframes and how pandas might be improved upon in  
the future are also covered by the end of the book you will have a solid understanding  
of how the pandas library works under the hood get ready to make confident decisions  
in your own projects by utilizing pandas the right way what you will learn understand  
the underlying data structure of pandas and why it performs the way it does under  
certain circumstances discover how to use pandas to extract transform and load data  
correctly with an emphasis on performance choose the right dataframe so that the data

analysis is simple and efficient improve performance of pandas operations with other python libraries who this book is for software engineers with basic programming skills in python keen on using pandas for a big data analysis project python software developers interested in big data

python is one of the top 3 tools that data scientists use one of the tools in their arsenal is the pandas library this tool is popular because it gives you so much functionality out of the box in addition you can use all the power of python to make the hard stuff easy learning the pandas library is designed to bring developers and aspiring data scientists who are anxious to learn pandas up to speed quickly it starts with the fundamentals of the data structures then it covers the essential functionality it includes many examples graphics code samples and plots from real world examples the content covers installation data structures series crud series indexing series methods series plotting series examples dataframe methods dataframe statistics grouping pivoting and reshaping dealing with missing data joining dataframes dataframe examples preliminary reviews this is an excellent introduction benefitting from clear writing and simple examples the pandas documentation itself is large and sometimes assumes too much knowledge in my opinion learning the pandas library bridges this gap for new users and even for those with some pandas experience such as me garry c i have finished reading learning the pandas library and i liked it very useful and helpful tips even for people who use pandas regularly tom z

learn how to use jupyterlab numpy pandas scipy matplotlib and seaborn for data science key features a get familiar with different inbuilt data structures functional programming and datetime objects a handling heavy datasets to optimize the data types for memory management reading files in chunks dask and modin pandas a time series analysis to find trends seasonality and cyclic components seaborn to build aesthetic plots with high level interfaces and customized themes a exploratory data analysis with real time datasets to maximize the insights about data description the book will start with quick introductions to python and its ecosystem libraries for data science such as jupyterlab numpy pandas scipy matplotlib and seaborn this book will help in learning python data structures and essential concepts such as functions lambdas list comprehensions datetime objects etc required for data engineering it also covers an in depth understanding of python data science packages where jupyterlab used as an ide for writing documenting and executing the python code numpy used for computation of numerical operations pandas for cleaning and reorganizing the data handling large datasets and merging the dataframes to get meaningful insights you will go through the statistics to understand the relation between the variables using scipy and building visualization charts using matplotlib and seaborn libraries what will you learn a learn about python data containers their methods and attributes a learn numpy arrays for the computation of numerical data a learn pandas data structures dataframes and series a learn statistics measures of central tendency central limit theorem confidence intervals and hypothesis testing a a brief understanding of visualization

control and draw different inbuilt charts to extract important variables detect outliers and anomalies using matplotlib and seaborn who this book is for this book is for anyone who wants to use python for data analysis and visualization this book is for novices as well as experienced readers with working knowledge of the pandas library basic knowledge of python is a must table of contents 1 introduction to data analysis 2 jupyter lab 3 python overview 4 introduction to numpy 5 introduction to pandas 6 data analysis 7 time series analysis 8 introduction to statistics 9 matplotlib 10 seaborn 11 exploratory data analysis about the author purna chander rao kathula is a data science enthusiast data manager seasoned programmer and a technical trainer with around 17 years of experience in a vast array of languages including perl c c java and python and wide variety set of domains like insurance adtech storage gaming mobility big data and analytics he is a certified applied data science with python specialization from coursera university of michigan he graduated from the college of engineering g i t a m with a degree in mechanical engineering he is a frequent speaker at datascience and data engineering user groups and he regularly delivers webinars and conducts training on hadoop big data data analysis and visualization technologies your blog links blog imaginea com author purna chander rao kathula slideshare net purnachander1 slideshare net sriganesha hive and data analysis using pandas your linkedin profile linkedin com in purna chander rao kathula 043852a

this book is a guide for you on how to use pandas and numpy in python programming language for data analysis the author begins by helping you familiarize yourself with the basics of data science numpy and pandas you are guided on how to work with numpy arrays and how to manipulate them the various operations that you can perform on your data via the pandas library have been discussed you will also know how to create various data structures in pandas for data storage data from the environment is dirty the process of cleaning such data has been discussed this involves handling outliers missing values etc the author guides you on how to work with data in various types of storage formats examples include ms excel csv files json etc you are also guided on how to calculate various measures for your data the process of visualizing data has been explored in detail about this book getting started with python for data science working with numpy working with pandas cleansing data working with csv data working with xls data data wrangling measures of central tendency calculating variance normal distribution working with json data data visualization tags data science with python python pandas programming numpy pandas pandas python pandas in python numpy in python numpy python numpy pandas data science ms excel books json python for data science pivot tables excel pivot tables data visualisation data visualisation python data visualisation for dummies data visualisation excel algorithms for data science

manage and automate data analysis with pandas in python today analysts must manage data characterized by extraordinary variety velocity and volume using the open source pandas library you can use python to rapidly automate and perform virtually any data analysis task no matter how large or complex pandas can help you ensure the

veracity of your data visualize it for effective decision making and reliably reproduce analyses across multiple data sets pandas for everyone 2nd edition brings together practical knowledge and insight for solving real problems with pandas even if you re new to python data analysis daniel y chen introduces key concepts through simple but practical examples incrementally building on them to solve more difficult real world data science problems such as using regularization to prevent data overfitting or when to use unsupervised machine learning methods to find the underlying structure in a data set new features to the second edition include extended coverage of plotting and the seaborn data visualization library expanded examples and resources updated python 3 9 code and packages coverage including statsmodels and scikit learn libraries online bonus material on geopandas dask and creating interactive graphics with altair chen gives you a jumpstart on using pandas with a realistic data set and covers combining data sets handling missing data and structuring data sets for easier analysis and visualization he demonstrates powerful data cleaning techniques from basic string manipulation to applying functions simultaneously across dataframes once your data is ready chen guides you through fitting models for prediction clustering inference and exploration he provides tips on performance and scalability and introduces you to the wider python data analysis ecosystem work with dataframes and series and import or export data create plots with matplotlib seaborn and pandas combine data sets and handle missing data reshape tidy and clean data sets so they re easier to work with convert data types and manipulate text strings apply functions to scale data manipulations aggregate transform and filter large data sets with groupby leverage pandas advanced date and time capabilities fit linear models using statsmodels and scikit learn libraries use generalized linear modeling to fit models with different response variables compare multiple models to select the best one regularize to overcome overfitting and improve performance use clustering in unsupervised machine learning

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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

what will you learn from this book want to learn the python language without slogging your way through how to manuals with head first python you ll quickly grasp python s fundamentals by working with built in data structures and functions you ll build your very own web app which once it s ready for prime time runs in the cloud you ll learn how to wrangle data with python scrape data from the web feed data to pandas and interact with databases this third edition is a complete learning experience that will help you become a bona fide python programmer in no time what s so special about this book if you ve read a head first book you know what to expect a visually rich format designed for the way your brain works if you haven t you re in for a treat with this book you ll learn python through a multisensory experience that engages your mind rather than a text heavy approach that puts you to sleep

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

serves as an introduction to python for data intensive applications

ready to learn data science through python language python for data analysis is a step by step guide for beginners and dabblers alike this book is designed to offer working knowledge of python and data science and some of the tools required to apply that knowledge it s possible that you have little experience with or knowledge of data analysis and are interested in it you might have some experience in coding you may have worked with data before and want to use python we have made this book in a way that will be helpful to all these groups and more besides in varying ways this can serve as an introduction to the most current tools and functions of those tools used by data scientists in this book you will learn data science analysis and its applications ipython and jupyter an introduction to the basic tools and how to navigate and use them you will also learn about its importance in a data scientist s ecosystem pandas a powerful data management python library that lets you do interesting things with data you will learn all the basics you need to get started numpy a powerful numerical library for python you will learn more about its advantages get your copy now

this introductory book is a beginner friendly resource that empowers you to harness python programming for exploring and understanding biomedical data in today s data driven world the ability to analyze and interpret complex datasets is a vital skill especially in biomedicine where data driven insights can lead to groundbreaking

advancements in health and medicine starting from scratch this book introduces python's fundamental syntax and guides you through its powerful applications in real world biomedical research starting with the basics this book offers a gentle introduction to python's syntax and core concepts making it accessible even if it is your first encounter with coding you will discover that python is more than just a tool it becomes an essential partner in uncovering the stories within your data our primary aim is to equip you with a foundational understanding of python enabling you to run pre written programs effectively and create simple pipelines for executing sequences of applications you will engage with practical examples and exercises inspired by real world biomedical scenarios giving you realistic insights into the challenges and successes you may encounter in your data analysis tasks whether you are taking your first steps into data analysis or looking to expand your current skills this introductory guide is ideal for graduate students emerging researchers and professionals in the biomedical field who are new to programming or python python essentials for biomedical data analysis serves as a valuable and inspiring resource throughout your journey unlocking the expansive potential of python in biomedical research

business users familiar with base sas programming can now learn python by example you will learn via examples that map sas programming constructs and coding patterns into their python equivalents your primary focus will be on pandas and data management issues related to analysis of data it is estimated that there are three million or more sas users worldwide today as the data science landscape shifts from using sas to open source software such as python many users will feel the need to update their skills most users are not formally trained in computer science and have likely acquired their skills programming sas as part of their job as a result the current documentation and plethora of books and websites for learning python are technical and not geared for most sas users python for sas users provides the most comprehensive set of examples currently available it contains over 200 python scripts and approximately 75 sas programs that are analogs to the python scripts the first chapters are more python centric while the remaining chapters illustrate sas and corresponding python examples to solve common data analysis tasks such as reading multiple input sources missing value detection imputation merging combining data and producing output this book is an indispensable guide for integrating sas and python workflows what you ll learn quickly master python for data analysis without using a trial and error approach understand the similarities and differences between base sas and python better determine which language to use depending on your needs obtain quick results who this book is for sas users sas programmers data scientists data scientist leaders and python users who need to work with sas

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 description extracting 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

if you buy a new print edition of this book or purchased one in the past you can buy the kindle edition for free print edition purchase must be sold by amazon you want to learn python for data analysis using numpy pandas and ipython and you don t know how to start you don t need a big boring and expensive textbook this book is the best one for everyone order your book now why this book is the best guide for everyone here are the reasons the author has explored everything about python for data analysis using pandas numpy ipython and matplotlib libraries from the basics a simple language has been used many examples have been given both theoretically and programmatically screenshots showing program outputs have been added the book is written chronologically in a step by step manner book objectives the aims and objectives of the book to help you understand why you should choose python for data analysis tasks to help you know the various data analysis libraries supported by python and how to use them to help you know how to analyze your business data and draw meaningful

insights for effective decision making to equip you with data analysis skills using python programming language to help you know where data analysis is applied today and how to use it in your everyday life who is this book is for here are the target readers for this book anybody who is a complete beginner to data analysis with python or data analysis in general anybody who wants to advance their data analysis skills with python programming language anybody who wants to know how to use data analysis for the benefit of their business or brand professionals in data science computer programming computer scientist professors lecturers or tutors who are looking to find better ways to explain python for data analysis to their students in the simplest and easiest way students and academicians especially those focusing on python programming computer science neural networks machine learning and deep learning what do you need for this book you are required to have installed the following on your computer python 3 x numpy pandas matplotlib the author guides you on how to install and configure the rest of the python libraries that are required for data analysis what is inside the book why python for data analysis exploring the libraries installation and setup using ipython numpy arrays and vectorized computation pandas library data wrangling data visualization data aggregation working with time series data applications of data analysis today the content of this book is all about data analysis with python programming language using numpy pandas and ipython it has been grouped into chapters with each chapter exploring a different aspect of data analysis the author has provided python codes for doing different data analysis tasks all these codes have been tested to ensure they are working correctly corresponding explanations have also been provided alongside each piece of code to help the reader understand the meaning of the various lines of the code in addition to this screenshots showing the output that each code should return have been given the author has used a simple language to make it easy even for beginners to understand the author begins by exploring the basic to the complex tasks in data analysis

introduction elevate your analytics with python in today s data driven world the ability to efficiently analyze and interpret information is more crucial than ever especially in the business sector python for excel users a beginner s guide is tailored for business students and professionals who are proficient in microsoft excel but are ready to embark on their python journey as a powerful and versatile programming language python has become indispensable in data analysis this book bridges the gap between excel and python by providing parallel exercises that demonstrate how python can amplify business analytics tasks with unmatched efficiency and flexibility through its side by side comparisons interactive python exercises and a teachable moment approach this guide offers a unique and intuitive learning experience by translating familiar excel tasks into python s dynamic and versatile ecosystem you ll not only enhance your data analysis skills but also gain confidence in programming why python did you know that python powers cutting edge technologies like chatgpt indeed python forms the foundation of many machine learning algorithms including large language models llms python is more than a programming language it s a tool for understanding

and shaping the digital world despite its advanced capabilities python's simple readable syntax makes it accessible to everyone from professional software developers to citizen developers like you dubbed the language of the people python is revolutionizing how we approach problem solving and automation in the modern world becoming tomorrow's tech savvy leaders the leaders of tomorrow are not just visionaries they are innovators who harness the power of technology to drive change and inspire others this book guides you through different scenarios to help you understand the connections between business questions and analytics steps we are taking as business students embracing python you're positioning yourselves as future ready leaders equipped to navigate and excel in the complexities of modern business welcome to a journey that will elevate your analytics expand your technological fluency and transform you into a tech savvy leader of the future

a practical guide to using modern software effectively in quantitative research in the social and natural sciences this book offers a practical guide to the computational methods at the heart of most modern quantitative research it will be essential reading for research assistants needing hands on experience students entering phd programs in business economics and other social or natural sciences and those seeking quantitative jobs in industry no background in computer science is assumed a learner need only have a computer with access to the internet using the example as its principal pedagogical device the book offers tried and true prototypes that illustrate many important computational tasks required in quantitative research the best way to use the book is to read it at the computer keyboard and learn by doing the book begins by introducing basic skills how to use the operating system how to organize data and how to complete simple programming tasks for its demonstrations the book uses a unix based operating system and a set of free software tools the scripting language python for programming tasks the database management system sqlite and the freely available r for statistical computing and graphics the book goes on to describe particular tasks analyzing data implementing commonly used numerical and simulation methods and creating extensions to python to reduce cycle time finally the book describes the use of latex a document markup language and preparation system

this easy to follow book will revolutionise how you approach text mining and data analysis as well as equipping you with the tools and confidence to navigate complex qualitative data it can be challenging to effectively combine theoretical concepts with practical real world applications but this accessible guide provides you with a clear step by step approach written specifically for students and early career researchers this pragmatic manual will contextualise your learning with real world data and engaging case studies encourage the application of your new skills with reflective questions enhance your ability to be critical and reflective when dealing with imperfect data supported by practical online resources this book is the perfect companion for those looking to gain confidence and independence whilst using transferable data skills

make data analysis fast reliable and clean with python pandas and matplotlib key features a detailed walk through of the pandas library s features with multiple examples numerous graphical representations and reporting capabilities using popular matplotlib a high level overview of extracting data from including files databases and the web description no matter how large or small your dataset is the author fabio nelli simply used this book to teach all the finest technical coaching on applying pandas to conduct data analysis with zero worries both newcomers and seasoned professionals will benefit from this book it teaches you how to use the pandas library in just one week every day of the week you ll learn and practise the features and data analysis exercises listed below day 01 get familiar with the fundamental data structures of pandas including declaration data upload indexing and so on day 02 execute commands and operations related to data selection and extraction including slicing sorting masking iteration and query execution day 03 advanced commands and operations such as grouping multi indexing reshaping cross tabulations and aggregations day 04 working with several data frames including comparison joins concatenation and merges day 05 cleaning pre processing and numerous strategies for data extraction from external files the web databases and other data sources day 06 working with missing data interpolation duplicate labels boolean data types text data and time series datasets day 07 introduction to jupyter notebooks interactive data analysis and analytical reporting with matplotlib s stunning graphics what you will learn extract cleanse and process data from databases text files html pages and json data work with dataframes and series and apply functions to scale data manipulations graph your findings using charts typically used in modern business analytics learn to use all of the pandas basic and advanced features independently storing and manipulating labeled columnar data efficiently who this book is for if you re looking to expedite a data science or sophisticated data analysis project you ve come to the perfect place each data analysis topic is covered step by step with real world examples python knowledge isn t required however knowing a little bit helps table of contents 1 pandas the python library 2 setting up a data analysis environment 3 day 1 data structures in pandas library 4 day 2 working within a dataframe basic functionalities 5 day 3 working within a dataframe advanced functionalities 6 day 4 working with two or more dataframes 7 day 5 working with data sources and real word datasets 8 day 6 troubleshooting challenges wit real datasets 9 day 7 data visualization and reporting 10 conclusion moving beyond

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