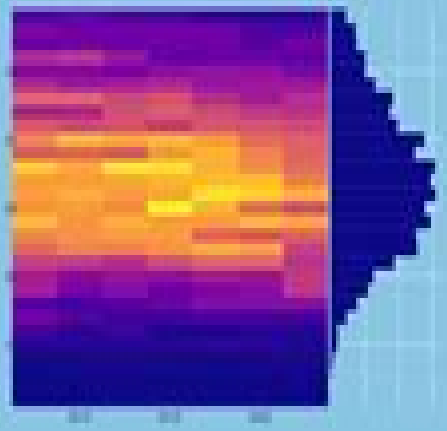
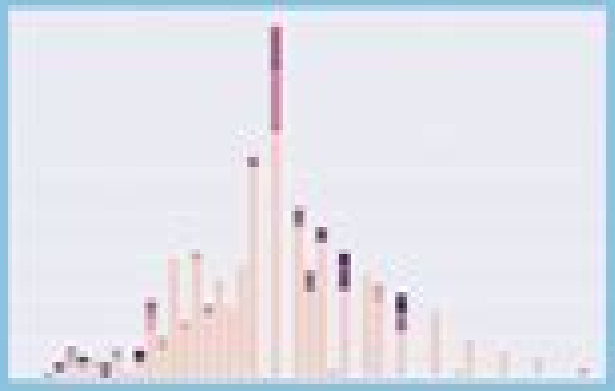
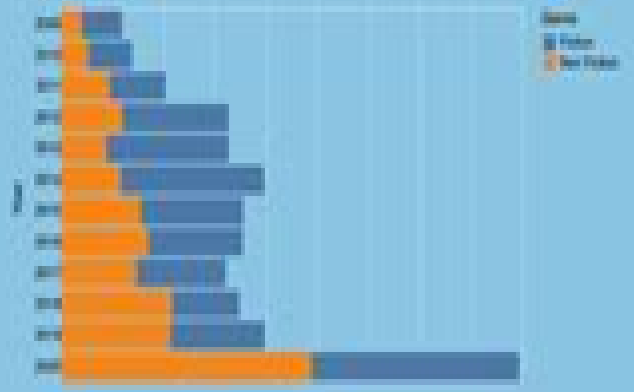
Python Data Visualization







Data Visualization With Python And Javascript

Vikrant Iyer

Data Visualization With Python And Javascript:

Data Visualization with Python and JavaScript, 2nd Edition Kyran Dale,2022 How do you turn raw unprocessed or malformed data into dynamic interactive web visualizations In this practical book author Kyran Dale shows data scientists and analysts as well as Python and JavaScript developers how to create the ideal toolchain for the job By providing engaging examples and stressing hard earned best practices this guide teaches you how to leverage the power of best of breed Python and JavaScript libraries Python provides accessible powerful and mature libraries for scraping cleaning and processing data And while JavaScript is the best language when it comes to programming web visualizations its data processing abilities can t compare with Python s Together these two languages are a perfect complement for creating a modern web visualization toolchain This book gets you started You ll learn how to Obtain data you need programmatically using scraping tools or web APIs Requests Scrapy Beautiful Soup Clean and process data using Python s heavyweight data processing libraries within the NumPy ecosystem Jupyter notebooks with pandas Matplotlib Seaborn Deliver the data to a browser with static files or by using Flask the lightweight Python server and a RESTful API Pick up enough web development skills HTML CSS JS to get your visualized data on the web Use the data you ve mined and refined to create web charts and visualizations with Plotly D3 Leaflet and other libraries **Data Visualization with Python and JavaScript** Kyran Dale,2016-03-25 Python and Javascript are the perfect complement for turning data into rich interactive web visualizations in a world that increasingly expects more than a pre rendered static image Developers need to know how to turn raw unprocessed data often dirty or malformed into dynamic interactive web visualizations Author Kyran Dale teaches you how to leverage the power of best of breed Python and Javascript libraries to do so using engaging examples and stressing hard earned best practice You ll learn how to Get data programmatically using scraping tools or web APIs Clean and process data using Python s heavyweight data processing libraries Deliver data to a browser using a lightweight Python server Flask Receive data and use it to create a web visualization using D3 Canvas or WebGL **Data Visualization with Python and JavaScript** Kyran Dale,2016-06-30 Learn how to turn raw data into rich interactive web visualizations with the powerful combination of Python and JavaScript With this hands on guide author Kyran Dale teaches you how build a basic dataviz toolchain with best of breed Python and JavaScript libraries including Scrapy Matplotlib Pandas Flask and D3 for crafting engaging browser based visualizations As a working example throughout the book Dale walks you through transforming Wikipedia s table based list of Nobel Prize winners into an interactive visualization You ll examine steps along the entire toolchain from scraping cleaning exploring and delivering data to building the visualization with JavaScript s D3 library If you re ready to create your own web based data visualizations and know either Python or JavaScript this is the book for you Learn how to manipulate data with Python Understand the commonalities between Python and JavaScript Extract information from websites by using Python s web scraping tools BeautifulSoup and Scrapy Clean and explore data with Python s Pandas Matplotlib and Numpy libraries Serve

data and create RESTful web APIs with Python s Flask framework Create engaging interactive web visualizations with JavaScript s D3 library **Data Visualization with Python and JavaScript** Kyran Dale,2022-12-07 How do you turn raw unprocessed or malformed data into dynamic interactive web visualizations In this practical book author Kyran Dale shows data scientists and analysts as well as Python and JavaScript developers how to create the ideal toolchain for the job By providing engaging examples and stressing hard earned best practices this guide teaches you how to leverage the power of best of breed Python and JavaScript libraries Python provides accessible powerful and mature libraries for scraping cleaning and processing data And while JavaScript is the best language when it comes to programming web visualizations its data processing abilities can t compare with Python s Together these two languages are a perfect complement for creating a modern web visualization toolchain This book gets you started You ll learn how to Obtain data you need programmatically using scraping tools or web APIs Requests Scrapy Beautiful Soup Clean and process data using Python s heavyweight data processing libraries within the NumPy ecosystem Jupyter notebooks with pandas Matplotlib Seaborn Deliver the data to a browser with static files or by using Flask the lightweight Python server and a RESTful API Pick up enough web development skills HTML CSS JS to get your visualized data on the web Use the data you ve mined and refined to create web charts and visualizations with Plotly D3 Leaflet and other libraries **Data Visualization with Python and JavaScript** Kyran Dale,2016 Learn how to turn raw data into rich interactive web visualizations with the powerful combination of Python and JavaScript With this hands on guide author Kyran Dale teaches you how build a basic dataviz toolchain with best of breed Python and JavaScript libraries including Scrapy Matplotlib Pandas Flask and D3 for crafting engaging browser based visualizations As a working example throughout the book Dale walks you through transforming Wikipedia s table based list of Nobel Prize winners into an interactive visualization You ll examine steps along the entire toolchain from scraping cleaning exploring and delivering data to building the visualization with JavaScript s D3 library If you re ready to create your own web based data visualizations and know either Python or JavaScript this is the book for you Learn how to manipulate data with Python Understand the commonalities between Python and JavaScript Extract information from websites by using Python s web scraping tools BeautifulSoup and Scrapy Clean and explore data with Python s Pandas Matplotlib and Numpy libraries Serve data and create RESTful web APIs with Python s Flask framework Create engaging interactive web visualizations with JavaScript s D3 library **Data Visualization with Python and JavaScript** Kyran Dale,2023-01-31 How do you turn raw unprocessed or malformed data into dynamic interactive web visualizations In this practical book author Kyran Dale shows data scientists and analysts as well as Python and JavaScript developers how to create the ideal toolchain for the job By providing engaging examples and stressing hard earned best practices this guide teaches you how to leverage the power of best of breed Python and JavaScript libraries Python provides accessible powerful and mature libraries for scraping cleaning and processing data And while JavaScript is the best language when it comes to programming web visualizations its data

processing abilities can t compare with Python s Together these two languages are a perfect complement for creating a modern web visualization toolchain This book gets you started You ll learn how to Obtain data you need programmatically using scraping tools or web APIs Requests Scrapy Beautiful Soup Clean and process data using Python s heavyweight data processing libraries within the NumPy ecosystem Jupyter notebooks with pandas Matplotlib Seaborn Deliver the data to a browser with static files or by using Flask the lightweight Python server and a RESTful API Pick up enough web development skills HTML CSS JS to get your visualized data on the web Use the data you ve mined and refined to create web charts and visualizations with Plotly D3 Leaflet and other libraries **Data Visualization with JavaScript** Stephen A. Thomas,2015-03-15 You ve got data to communicate But what kind of visualization do you choose how do you build your visualizations and how do you ensure that they re up to the demands of the Web In Data Visualization with JavaScript you ll learn how to use JavaScript HTML and CSS to build practical visualizations for your data Step by step examples walk you through creating integrating and debugging different types of visualizations and you ll be building basic visualizations like bar line and scatter graphs in no time You ll also learn how to Create tree maps heat maps network graphs word clouds and timelines Map geographic data and build sparklines and composite charts Add interactivity and retrieve data with AJAX Manage data in the browser and build data driven web applications Harness the power of the Flotr2 Flot Chronoline js D3 js Underscore js and Backbone js libraries If you already know your way around building a web page but aren t quite sure how to build a good visualization Data Visualization with JavaScript will help you get your feet wet without throwing you into the deep end You ll soon be well on your way to creating simple powerful data visualizations Mastering Python Data Visualization Kirthi Raman,2015-10-27 Generate effective results in a variety of visually appealing charts using the plotting packages in Python About This Book Explore various tools and their strengths while building meaningful representations that can make it easier to understand data Packed with computational methods and algorithms in diverse fields of science Written in an easy to follow categorical style this book discusses some niche techniques that will make your code easier to work with and reuse Who This Book Is For If you are a Python developer who performs data visualization and wants to develop existing knowledge about Python to build analytical results and produce some amazing visual display then this book is for you A basic knowledge level and understanding of Python libraries is assumed What You Will Learn Gather cleanse access and map data to a visual framework Recognize which visualization method is applicable and learn best practices for data visualization Get acquainted with reader driven narratives and author driven narratives and the principles of perception Understand why Python is an effective tool to be used for numerical computation much like MATLAB and explore some interesting data structures that come with it Explore with various visualization choices how Python can be very useful in computation in the field of finance and statistics Get to know why Python is the second choice after Java and is used frequently in the field of machine learning Compare Python with other visualization approaches using Julia and a JavaScript based framework such as

D3 js Discover how Python can be used in conjunction with NoSQL such as Hive to produce results efficiently in a distributed environment In Detail Python has a handful of open source libraries for numerical computations involving optimization linear algebra integration interpolation and other special functions using array objects machine learning data mining and plotting Pandas have a productive environment for data analysis These libraries have a specific purpose and play an important role in the research into diverse domains including economics finance biological sciences social science health care and many more The variety of tools and approaches available within Python community is stunning and can bolster and enhance visual story experiences This book offers practical guidance to help you on the journey to effective data visualization Commencing with a chapter on the data framework which explains the transformation of data into information and eventually knowledge this book subsequently covers the complete visualization process using the most popular Python libraries with working examples You will learn the usage of Numpy Scipy IPython MatPlotLib Pandas Patsy and Scikit Learn with a focus on generating results that can be visualized in many different ways Further chapters are aimed at not only showing advanced techniques such as interactive plotting numerical graphical linear and non linear regression clustering and classification but also in helping you understand the aesthetics and best practices of data visualization The book concludes with interesting examples such as social networks directed graph examples in real life data structures appropriate for these problems and network analysis By the end of this book you will be able to effectively solve a broad set of data analysis problems Style and approach The approach of this book is not step by step but rather categorical The categories are based on fields such as bioinformatics statistical and machine learning financial computation and linear algebra This approach is beneficial for the community in many different fields of work and also helps you learn how one approach can make sense across many fields *Creating Augmented and Virtual Realities* Erin Pangilinan,Steve Lukas,Vasanth Mohan,2019-03-18 Despite popular forays into augmented and virtual reality in recent years spatial computing still sits on the cusp of mainstream use Developers artists and designers looking to enter this field today have few places to turn for expert guidance In this book Erin Pangilinan Steve Lukas and Vasanth Mohan examine the AR and VR development pipeline and provide hands on practice to help you hone your skills Through step by step tutorials you ll learn how to build practical applications and experiences grounded in theory and backed by industry use cases In each section of the book industry specialists including Timoni West Victor Prisacariu and Nicolas Meuleau join the authors to explain the technology behind spatial computing In three parts this book covers Art and design Explore spatial computing and design interactions human centered interaction and sensory design and content creation tools for digital art Technical development Examine differences between ARKit ARCore and spatial mapping based systems learn approaches to cross platform development on head mounted displays Use cases Learn how data and machine learning visualization and AI work in spatial computing training sports health and other enterprise applications **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 **An Ultimate Guide for Campus Placement** Prof. Amit Bankar, Dr. Rasika Chafle,2025-03-29 An Ultimate Guide for Campus Placement is a comprehensive resource designed to help students confidently face the competitive world of campus recruitment Written by Amit Bankar an industry and academic expert with 24 years of experience this book provides a step by step thoughtful approach to mastering aptitude tests group discussions personal interviews resume building and communication skills It covers essential strategies to crack technical and HR interviews offering real life examples practical tips and expert insights The book also sheds light on the expectations of recruiters and how students can align their skills accordingly Whether you are an engineering management or any professional course student this guide will equip you with the knowledge and confidence needed to secure your dream job With a focus on industry trends skill development and placement strategies this book serves as a one stop solution for students aspiring for a successful career If you are preparing for campus placements competitive exams or job interviews this book is your ultimate companion to stand out in the selection

process *Digital Humanities Research Methods* Vikrant Iyer,2025-02-20 Digital Humanities Research Methods offers a comprehensive exploration into the methodologies employed within the interdisciplinary field of digital humanities Through a blend of theoretical insights and practical guidance we equip readers with the tools necessary to conduct rigorous and innovative research in the digital realm Covering a wide array of topics this book delves into the unique challenges and opportunities presented by digital technologies in the humanities We address key concepts such as data collection analysis visualization and interpretation within the context of digital scholarship Additionally the text examines the ethical considerations inherent in digital research emphasizing the importance of responsible and transparent practices One of the book s strengths lies in its emphasis on interdisciplinary collaboration By encouraging scholars from various backgrounds to engage with digital methods we foster a rich exchange of ideas and approaches ultimately enhancing the breadth and depth of research in the humanities Whether readers are seasoned practitioners or newcomers to the field Digital Humanities Research Methods serves as an invaluable resource for navigating the complexities of digital scholarship and pushing the boundaries of inquiry in the digital age *How to become a prompt engineer - A comprehensive Guide to start your prompt engineer career* Bernhard Gaum,2024-11-11 Unlock the secrets to mastering AI communication with How to Become a Prompt Engineer As artificial intelligence continues to shape our world the ability to craft effective prompts has become an essential skill for anyone looking to harness the full potential of AI systems This guide provides a comprehensive introduction to the art and science of prompt engineering empowering you to create clear relevant and powerful AI interactions Through practical techniques real world examples and hands on activities you ll learn how to design prompts that yield accurate and meaningful responses From avoiding common pitfalls to refining prompts through iteration each chapter equips you with the tools and strategies to improve AI outputs and navigate complex AI applications Whether you re a tech enthusiast content creator developer or just curious about AI How to Become a Prompt Engineer will help you master the skills needed to succeed in the fast evolving world of AI and natural language processing Start your journey today and discover how to transform simple queries into sophisticated AI driven solutions Web and Wireless Geographical Information Systems Yukiko Kawai,Sabine Storandt,Kazutoshi Sumiya,2019-05-06 This book constitutes the refereed proceedings of the 17th International Symposium on Web and Wireless Geographical Information Systems W2GIS 2019 held in Kyoto Japan in May 2019 The 10 full papers included in the volume together with a keynote paper and 3 work in progress papers were carefully reviewed and selected from 37 submissions The papers discuss advances in theoretical technical and practical issues in the field of wireless and Internet technologies suited for the dissemination usage and processing of geo referenced data They cover topics such as Web technologies and techniques paths and navigation Web visualization and novel applications

Python: Data Analytics and Visualization Phuong Vo.T.H,Martin Czygan,Ashish Kumar,Kirthi Raman,2017-03-31 Understand evaluate and visualize data About This Book Learn basic steps of data analysis and how to use Python and its

packages A step by step guide to predictive modeling including tips tricks and best practices Effectively visualize a broad set of analyzed data and generate effective results Who This Book Is For This book is for Python Developers who are keen to get into data analysis and wish to visualize their analyzed data in a more efficient and insightful manner What You Will Learn Get acquainted with NumPy and use arrays and array oriented computing in data analysis Process and analyze data using the time series capabilities of Pandas Understand the statistical and mathematical concepts behind predictive analytics algorithms Data visualization with Matplotlib Interactive plotting with NumPy Scipy and MKL functions Build financial models using Monte Carlo simulations Create directed graphs and multi graphs Advanced visualization with D3 In Detail You will start the course with an introduction to the principles of data analysis and supported libraries along with NumPy basics for statistics and data processing Next you will overview the Pandas package and use its powerful features to solve data processing problems Moving on you will get a brief overview of the Matplotlib API Next you will learn to manipulate time and data structures and load and store data in a file or database using Python packages You will learn how to apply powerful packages in Python to process raw data into pure and helpful data using examples You will also get a brief overview of machine learning algorithms that is applying data analysis results to make decisions or building helpful products such as recommendations and predictions using Scikit learn After this you will move on to a data analytics specialization predictive analytics Social media and IOT have resulted in an avalanche of data You will get started with predictive analytics using Python You will see how to create predictive models from data You will get balanced information on statistical and mathematical concepts and implement them in Python using libraries such as Pandas scikit learn and NumPy You ll learn more about the best predictive modeling algorithms such as Linear Regression Decision Tree and Logistic Regression Finally you will master best practices in predictive modeling After this you will get all the practical guidance you need to help you on the journey to effective data visualization Starting with a chapter on data frameworks which explains the transformation of data into information and eventually knowledge this path subsequently cover the complete visualization process using the most popular Python libraries with working examples This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Getting Started with Python Data Analysis Phuong Vo T H Martin Czygan Learning Predictive Analytics with Python Ashish Kumar Mastering Python Data Visualization Kirthi Raman Style and approach The course acts as a step by step guide to get you familiar with data analysis and the libraries supported by Python with the help of real world examples and datasets It also helps you gain practical insights into predictive modeling by implementing predictive analytics algorithms on public datasets with Python The course offers a wealth of practical guidance to help you on this journey to data visualization The New News Joan Van Tassel,Mary Murphy,Joseph Schmitz,2020-07-30 The New News offers an approachable practical guide to the 21st century newsroom equipping journalists with the skills needed to work expertly accurately and efficiently across multiple media

platforms Emphasizing the importance of verification and authentication the book shows how journalists adapt traditional practices of information gathering observation interviewing and newswriting for online publications The text includes comprehensive coverage of key digital and multimedia competencies capturing multimedia content doing data journalism mobile reporting working in teams participating with global audiences and building a personal brand Features developed exclusively for this book include innovative visuals showing the multimedia news structures and workflows used in modern newsrooms interviews with prominent journalists about their experiences in contemporary journalism a glossary of up to date terms relevant to online journalism and practical exercises and activities for classroom use as well as additional downloadable online instructor materials The New News provides excellent resources to help journalism students and early career professionals succeed in today s digital networked news industry The authors are donating all royalties to nonprofit LION s programs to support local online news publications **Soft Computing for Security Applications** G. Ranganathan,Xavier Fernando,Fuqian Shi,Youssouf El Allioui,2021-10-25 This book features selected papers from the International Conference on Soft Computing for Security Applications ICSCS 2021 held at Dhirajlal Gandhi College of Technology Tamil Nadu India during June 2021 It covers recent advances in the field of soft computing techniques such as fuzzy logic neural network support vector machines evolutionary computation machine learning and probabilistic reasoning to solve various real time challenges The book presents innovative work by leading academics researchers and experts from industry **Transformative Approaches to STEAM Integration in Modern Education** Behera, Santosh Kumar,Sorayyaei Azar, Ali,Curle, Samantha,Dials, Jeanette Gaoat,2025-01-22 STEAM represents an approach that nurtures the curiosity communication and critical thinking of both students and researchers By integrating science technology engineering arts and mathematics into a unified discipline STEAM provides opportunities for thinking innovatively engaging in hands on learning and fostering collaborative teamwork Despite its potential benefits the integration of STEAM into educational curricula presents various challenges including resistance from traditional educational systems resource constraints and the need for teacher professional development Ensuring equitable access to STEAM education and addressing gender and diversity issues remain critical concerns Further research may help educators address these concerns and integrate STEAM effectively into their educational practices Transformative Approaches to STEAM Integration in Modern Education explores the multifaceted dimensions of STEAM education and research emphasizing its transformative potential challenges and implications for fostering innovation and holistic development in learners Through a comprehensive analysis of theoretical frameworks practical applications and real world case studies the book aims to provide insights into the conceptualization implementation and assessment of STEAM approaches across various educational levels This book covers topics such as educational literacy skill development and digital technology and is a useful resource for educators academicians administrators and researchers Building Data-Driven Applications with Danfo.js Rising Odegua,Stephen

Oni,2021-09-24 Get hands on with building data driven applications using Danfo js in combination with other data analysis tools and techniques Key FeaturesBuild microservices to perform data transformation and ML model serving in JavaScriptExplore what Danfo js is and how it helps with data analysis and data visualizationCombine Danfo js and TensorFlow js for machine learningBook Description Most data analysts use Python and pandas for data processing for the convenience and performance these libraries provide However JavaScript developers have always wanted to use machine learning in the browser as well This book focuses on how Danfo js brings data processing analysis and ML tools to JavaScript developers and how to make the most of this library to build data driven applications Starting with an overview of modern JavaScript you ll cover data analysis and transformation with Danfo js and Dnotebook The book then shows you how to load different datasets combine and analyze them by performing operations such as handling missing values and string manipulations You ll also get to grips with data plotting visualization aggregation and group operations by combining Danfo js with Plotly As you advance you ll create a no code data analysis and handling system and create react app react table react chart Draggable js and tailwindcss and understand how to use TensorFlow js and Danfo js to build a recommendation system Finally you ll build a Twitter analytics dashboard powered by Danfo js Next js node nlp and Twit js By the end of this app development book you ll be able to build and embed data analytics visualization and ML capabilities into any JavaScript app in server side Node js or the browser What you will learnPerform data experimentation and analysis with Danfo js and DnotebookBuild machine learning applications using Danfo js integrated with TensorFlow jsConnect Danfo js with popular database applications to aid data analysisCreate a no code data analysis and handling system using internal librariesDevelop a recommendation system with Danfo js and TensorFlow jsBuild a Twitter analytics dashboard for sentiment analysis and other types of data insightsWho this book is for This book is for data analysts data scientists and JavaScript developers who want to create data driven applications in the JavaScript Node js environment Intermediate level knowledge of JavaScript programming and data science using pandas is expected Interactive Dashboards and Data Apps with Plotly and Dash Elias Dabbas,2021-05-21 Build web based mobile friendly analytic apps and interactive dashboards with Python Key Features Develop data apps and dashboards without any knowledge of JavaScript Map different types of data such as integers floats and dates to bar charts scatter plots and more Create controls and visual elements with multiple inputs and outputs and add functionality to the app as per your requirements Book DescriptionPlotly s Dash framework is a life saver for Python developers who want to develop complete data apps and interactive dashboards without JavaScript but you ll need to have the right guide to make sure you re getting the most of it With the help of this book you ll be able to explore the functionalities of Dash for visualizing data in different ways Interactive Dashboards and Data Apps with Plotly and Dash will first give you an overview of the Dash ecosystem its main packages and the third party packages crucial for structuring and building different parts of your apps You ll learn how to create a basic Dash app and add different features to it Next you ll

integrate controls such as dropdowns checkboxes sliders date pickers and more in the app and then link them to charts and other outputs Depending on the data you are visualizing you ll also add several types of charts including scatter plots line plots bar charts histograms and maps as well as explore the options available for customizing them By the end of this book you ll have developed the skills you need to create and deploy an interactive dashboard handle complexities and code refactoring and understand the process of improving your application What you will learn Find out how to run a fully interactive and easy to use app Convert your charts to various formats including images and HTML files Use Plotly Express and the grammar of graphics for easily mapping data to various visual attributes Create different chart types such as bar charts scatter plots histograms maps and more Expand your app by creating dynamic pages that generate content based on URLs Implement new callbacks to manage charts based on URLs and vice versa Who this book is for This Plotly Dash book is for data professionals and data analysts who want to gain a better understanding of their data with the help of different visualizations and dashboards and without having to use JS Basic knowledge of the Python programming language and HTML will help you to grasp the concepts covered in this book more effectively but it s not a prerequisite

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Data Visualization With Python And Javascript Introduction

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