

Getting started with Python on IBM i.



Getting Started With Python On Ibm I Gateway 4

David Taieb



Getting Started With Python On Ibm I Gateway 4:

Turning Data into Insight with IBM Machine Learning for z/OS Samantha Buhler,Guanjun Cai,John

Goodyear,Edrian Irizarry,Nora Kissari,Zhuo Ling,Nicholas Marion,Aleksandr Petrov,Junfei Shen,Wanting Wang,He Sheng Yang,Dai Yi,Xavier Yuen,Hao Zhang,IBM Redbooks,2018-09-11 The exponential growth in data over the last decade coupled with a drastic drop in cost of storage has enabled organizations to amass a large amount of data This vast data becomes the new natural resource that these organizations must tap in to innovate and stay ahead of the competition and they must do so in a secure environment that protects the data throughout its lifecycle and data access in real time at any time When it comes to security nothing can rival IBM Z the multi workload transactional platform that powers the core business processes of the majority of the Fortune 500 enterprises with unmatched security availability reliability and scalability With core transactions and data originating on IBM Z it simply makes sense for analytics to exist and run on the same platform For years some businesses chose to move their sensitive data off IBM Z to platforms that include data lakes Hadoop and warehouses for analytics processing However the massive growth of digital data the punishing cost of security exposures as well as the unprecedented demand for instant actionable intelligence from data in real time have convinced them to rethink that decision and instead embrace the strategy of data gravity for analytics At the core of data gravity is the conviction that analytics must exist and run where the data resides An IBM client eloquently compares this change in analytics strategy to a shift from moving the ocean to the boat to moving the boat to the ocean where the boat is the analytics and the ocean is the data IBM respects and invests heavily on data gravity because it recognizes the tremendous benefits that data gravity can deliver to you including reduced cost and minimized security risks IBM Machine Learning for z OS is one of the offerings that decidedly move analytics to Z where your mission critical data resides In the inherently secure Z environment your machine learning scoring services can co exist with your transactional applications and data supporting high throughput and minimizing response time while delivering consistent service level agreements SLAs This book introduces Machine Learning for z OS version 1 1 0 and describes its unique value proposition It provides step by step guidance for you to get started with the program including best practices for capacity planning installation and configuration administration and operation Through a retail example the book shows how you can use the versatile and intuitive web user interface to quickly train build evaluate and deploy a model Most importantly it examines use cases across industries to illustrate how you can easily turn your massive data into valuable insights with Machine Learning for z OS

Data Analysis with Python David

Taieb,2018-12-31 Learn a modern approach to data analysis using Python to harness the power of programming and AI across your data Detailed case studies bring this modern approach to life across visual data social media graph algorithms and time series analysis Key FeaturesBridge your data analysis with the power of programming complex algorithms and AIUse Python and its extensive libraries to power your way to new levels of data insightWork with AI algorithms TensorFlow

graph algorithms NLP and financial time series Explore this modern approach across with key industry case studies and hands on projects

Book Description Data Analysis with Python offers a modern approach to data analysis so that you can work with the latest and most powerful Python tools AI techniques and open source libraries Industry expert David Taieb shows you how to bridge data science with the power of programming and algorithms in Python You ll be working with complex algorithms and cutting edge AI in your data analysis Learn how to analyze data with hands on examples using Python based tools and Jupyter Notebook You ll find the right balance of theory and practice with extensive code files that you can integrate right into your own data projects Explore the power of this approach to data analysis by then working with it across key industry case studies Four fascinating and full projects connect you to the most critical data analysis challenges you re likely to meet in today The first of these is an image recognition application with TensorFlow embracing the importance today of AI in your data analysis The second industry project analyses social media trends exploring big data issues and AI approaches to natural language processing The third case study is a financial portfolio analysis application that engages you with time series analysis pivotal to many data science applications today The fourth industry use case dives you into graph algorithms and the power of programming in modern data science You ll wrap up with a thoughtful look at the future of data science and how it will harness the power of algorithms and artificial intelligence What you will learn A new toolset that has been carefully crafted to meet for your data analysis challenges Full and detailed case studies of the toolset across several of today s key industry contexts Become super productive with a new toolset across Python and Jupyter Notebook Look into the future of data science and which directions to develop your skills next Who this book is for This book is for developers wanting to bridge the gap between them and data scientists Introducing PixieDust from its creator the book is a great desk companion for the accomplished Data Scientist Some fluency in data interpretation and visualization is assumed It will be helpful to have some knowledge of Python using Python libraries and some proficiency in web development

[Cloud Security Guidelines for IBM Power Systems](#) Turgut Aslan, Peter G. Croes, Liviu Rosca, Max Stern, IBM Redbooks, 2016-03-09 This IBM Redbooks publication is a comprehensive guide that covers cloud security considerations for IBM Power Systems™ The first objectives of this book are to examine how Power Systems can fit into the current and developing cloud computing landscape and to outline the proven Cloud Computing Reference Architecture CCRA that IBM employs in building private and hybrid cloud environments The book then looks more closely at the underlying technology and hones in on the security aspects for the following subsystems IBM Hardware Management Console IBM PowerVM IBM PowerKVM IBM PowerVC IBM Cloud Manager with OpenStack IBM Bluemix This publication is for professionals who are involved in security design with regard to planning and deploying cloud infrastructures using IBM Power Systems

IBM i 7.2 Technical Overview with Technology Refresh Updates Ryan Cooper, Dwight Harrison, Takahiro Ichikawa, Siripong Prukpaiboon, Edward Handy Satio, Jiri Sochr, Tom Vernailen, IBM Redbooks, 2016-11-02 This IBM Redbooks publication

provides a technical overview of the features functions and enhancements that are available in IBM i 7.2 including all the available Technology Refresh TR levels from TR1 to TR3 This publication provides a summary and brief explanation of the many capabilities and functions in the operating system It also describes many of the licensed programs and application development tools that are associated with IBM i The information that is provided in this book is useful for clients IBM Business Partners and IBM service professionals that are involved with planning supporting upgrading and implementing IBM i 7.2 solutions

Modeling Techniques in Predictive Analytics with Python and R Thomas W. Miller, 2014-09-29 Master predictive analytics from start to finish Start with strategy and management Master methods and build models Transform your models into highly effective code in both Python and R This one of a kind book will help you use predictive analytics Python and R to solve real business problems and drive real competitive advantage You ll master predictive analytics through realistic case studies intuitive data visualizations and up to date code for both Python and R not complex math Step by step you ll walk through defining problems identifying data crafting and optimizing models writing effective Python and R code interpreting results and more Each chapter focuses on one of today s key applications for predictive analytics delivering skills and knowledge to put models to work and maximize their value Thomas W Miller leader of Northwestern University s pioneering program in predictive analytics addresses everything you need to succeed strategy and management methods and models and technology and code If you re new to predictive analytics you ll gain a strong foundation for achieving accurate actionable results If you re already working in the field you ll master powerful new skills If you re familiar with either Python or R you ll discover how these languages complement each other enabling you to do even more All data sets extensive Python and R code and additional examples available for download at <http://www.ftpress.com/miller> Python and R offer immense power in predictive analytics data science and big data This book will help you leverage that power to solve real business problems and drive real competitive advantage Thomas W Miller s unique balanced approach combines business context and quantitative tools illuminating each technique with carefully explained code for the latest versions of Python and R If you re new to predictive analytics Miller gives you a strong foundation for achieving accurate actionable results If you re already a modeler programmer or manager you ll learn crucial skills you don t already have Using Python and R Miller addresses multiple business challenges including segmentation brand positioning product choice modeling pricing research finance sports text analytics sentiment analysis and social network analysis He illuminates the use of cross sectional data time series spatial and spatio temporal data You ll learn why each problem matters what data are relevant and how to explore the data you ve identified Miller guides you through conceptually modeling each data set with words and figures and then modeling it again with realistic code that delivers actionable insights You ll walk through model construction explanatory variable subset selection and validation mastering best practices for improving out of sample predictive performance Miller employs data visualization and statistical graphics to help you explore data present models and evaluate performance Appendices include

five complete case studies and a detailed primer on modern data science methods Use Python and R to gain powerful actionable profitable insights about Advertising and promotion Consumer preference and choice Market baskets and related purchases Economic forecasting Operations management Unstructured text and language Customer sentiment Brand and price Sports team performance And much more

Digital Transformation Antonella Petrillo,Fabio De Felice,Monica Violeta Achim,Nawazish Mirza,2022-10-05 In the business world digital transformation involves finding and developing new strategies and modernizing the information technology of private and public companies This book presents practices challenges and opportunities related to digital transformation It includes fourteen chapters that address digital transformation in a variety of industries including finance construction education marketing and more

Practical Quantum Computing for Developers Vladimir Silva,2018-12-12 Write algorithms and program in the new field of quantum computing This book covers major topics such as the physical components of a quantum computer qubits entanglement logic gates circuits and how they differ from a traditional computer Also Practical Quantum Computing for Developers discusses quantum computing in the cloud using IBM Q Experience including the composer quantum scores experiments circuits simulators real quantum devices and more You ll be able to run experiments in the cloud on a real quantum device Furthermore this book shows you how to do quantum programming using the QISKit Quantum Information Software Kit Python SDK and other APIs such as QASM Quantum Assembly You ll learn to write code using these languages and execute it against simulators local or remote or a real quantum computer provided by IBM s Q Experience Finally you ll learn the current quantum algorithms for entanglement random number generation linear search integer factorization and others You ll peak inside the inner workings of the Bell states for entanglement Grover s algorithm for linear search Shor s algorithm for integer factorization and other algorithms in the fields of optimization and more Along the way you ll also cover game theory with the Magic Square an example of quantum pseudo telepathy where parties sharing entangled states can be observed to have some kind of communication between them In this game Alice and Bob play against a referee Quantum mechanics allows Alice and Bob to always win By the end of this book you will understand how this emerging technology provides massive parallelism and significant computational speedups over classical computers and will be prepared to program quantum computers which are expected to replace traditional computers in the data center What You Will Learn Use the Q Experience Composer the first of its kind web console to create visual programs experiments and submit them to a quantum simulator or real device on the cloud Run programs remotely using the Q Experience REST API Write algorithms that provide superior performance over their classical counterparts Build a Node js REST client for authenticating listing remote devices querying information about quantum processors and listing or running experiments remotely in the cloud Create a quantum number generator The quintessential coin flip with a quantum twist Discover quantum teleportation This algorithm demonstrates how the exact state of a qubit quantum information can be transmitted from one location to another with the

help of classical communication and quantum entanglement between the sender and receiver Peek into single qubit operations with the classic game of Battleships with a quantum twist Handle the counterfeit coin problem a classic puzzle that consists of finding a counterfeit coin in a beam balance among eight coins in only two turns Who This Book Is For Developers and programmers interested in this new field of computing

AI and Big Data on IBM Power Systems Servers Scott Vetter,Ivaylo B. Bozhinov,Anto A John,Rafael Freitas de Lima,Ahmed.(Mash) Mashhour,James Van Oosten,Fernando Vermelho,Allison White,IBM Redbooks,2019-04-10 As big data becomes more ubiquitous businesses are wondering how they can best leverage it to gain insight into their most important business questions Using machine learning ML and deep learning DL in big data environments can identify historical patterns and build artificial intelligence AI models that can help businesses to improve customer experience add services and offerings identify new revenue streams or lines of business LOBs and optimize business or manufacturing operations The power of AI for predictive analytics is being harnessed across all industries so it is important that businesses familiarize themselves with all of the tools and techniques that are available for integration with their data lake environments In this IBM Redbooks publication we cover the best practices for deploying and integrating some of the best AI solutions on the market including IBM Watson Machine Learning Accelerator see note for product naming IBM Watson Studio Local IBM Power Systems™ IBM Spectrum™ Scale IBM Data Science Experience IBM DSX IBM Elastic Storage™ Server Hortonworks Data Platform HDP Hortonworks DataFlow HDF H2O Driverless AI We map out all the integrations that are possible with our different AI solutions and how they can integrate with your existing or new data lake We also walk you through some of our client use cases and show you how some of the industry leaders are using Hortonworks IBM PowerAI and IBM Watson Studio Local to drive decision making We also advise you on your deployment options when to use a GPU and why you should use the IBM Elastic Storage Server IBM ESS to improve storage management Lastly we describe how to integrate IBM Watson Machine Learning Accelerator and Hortonworks with or without IBM Watson Studio Local how to access real time data and security Note IBM Watson Machine Learning Accelerator is the new product name for IBM PowerAI Enterprise Note Hortonworks merged with Cloudera in January 2019 The new company is called Cloudera References to Hortonworks as a business entity in this publication are now referring to the merged company Product names beginning with Hortonworks continue to be marketed and sold under their original names

Marketing Data Science Thomas W. Miller,2015-05-02 Now a leader of Northwestern University's prestigious analytics program presents a fully integrated treatment of both the business and academic elements of marketing applications in predictive analytics Writing for both managers and students Thomas W Miller explains essential concepts principles and theory in the context of real world applications Building on Miller's pioneering program Marketing Data Science thoroughly addresses segmentation target marketing brand and product positioning new product development choice modeling recommender systems pricing research retail site selection demand estimation sales forecasting customer

retention and lifetime value analysis Starting where Miller s widely praised Modeling Techniques in Predictive Analytics left off he integrates crucial information and insights that were previously segregated in texts on web analytics network science information technology and programming Coverage includes The role of analytics in delivering effective messages on the web Understanding the web by understanding its hidden structures Being recognized on the web and watching your own competitors Visualizing networks and understanding communities within them Measuring sentiment and making recommendations Leveraging key data science methods databases data preparation classical Bayesian statistics regression classification machine learning and text analytics Six complete case studies address exceptionally relevant issues such as separating legitimate email from spam identifying legally relevant information for lawsuit discovery gleaning insights from anonymous web surfing data and more This text s extensive set of web and network problems draw on rich public domain data sources many are accompanied by solutions in Python and or R Marketing Data Science will be an invaluable resource for all students faculty and professional marketers who want to use business analytics to improve marketing performance

Installing and Configuring IBM Db2 AI for IBM z/OS v1.4.0 Tim Hogan, Lydia Parziale, Guanjun Cai, Janet

Figone, IBM Redbooks, 2022-01-04 Artificial intelligence AI enables computers and machines to mimic the perception learning problem solving and decision making capabilities of the human mind AI development is made possible by the availability of large amounts of data and the corresponding development and wide availability of computer systems that can process all that data faster and more accurately than humans can What happens if you infuse AI with a world class database management system such as IBM Db2 IBM has done just that with Db2 AI for z OS Db2ZAI Db2ZAI is built to infuse AI and data science to assist businesses in the use of AI to develop applications more easily With Db2ZAI the following benefits are realized Data science functionality Better built applications Improved database performance and DBA s time and efforts are saved through simplification and automation of error reporting and routine tasks Machine learning ML optimizer to improve query access paths and reduce the need for manual tuning and query optimization Integrated data access that makes data available from various vendors including private cloud providers This IBM Redpaper publication helps to simplify your installation by tailoring and configuration of Db2 AI for z OS It was written for system programmers system administrators and database administrators

Creating Composite Application Pattern Models for IBM PureApplication System Prashanth

Bhat, Julian Foster, Mahmoud Galal, Lei He, Andre Tost, Yue Wang, IBM Redbooks, 2013-08-22 This IBM Redbooks publication describes how IBM PureApplication™ System supports the creation of virtual systems and virtual applications PureApplication System does so using a pattern model that enables you to take advantage of predefined pre configured and proven middleware topologies and deployments This book also presents an abstraction level that focuses on functional capabilities and applications completely encapsulating the underlying middleware It describes in detail the model and the associated frameworks in PureApplication System as well as a methodology and approach toward designing and

implementing a custom pattern model This book shows concrete implementation examples that you can use when creating your own pattern model paired with a collection of leading practices This IBM Redbooks publication gives critical guidance to and serves as a reference for independent software vendors ISVs who want to create patterns for their packaged applications on PureApplication System Clients who want to extend and enhance their existing patterns can also use this book

Handbook of Research on Big Data and the IoT Kaur, Gurjit, Tomar, Pradeep, 2019-03-29 The increase in connected devices in the internet of things IoT is leading to an exponential increase in the data that an organization is required to manage To successfully utilize IoT in businesses big data analytics are necessary in order to efficiently sort through the increased data The combination of big data and IoT can thus enable new monitoring services and powerful processing of sensory data streams The Handbook of Research on Big Data and the IoT is a pivotal reference source that provides vital research on emerging trends and recent innovative applications of big data and IoT challenges facing organizations and the implications of these technologies on society and best practices for their implementation While highlighting topics such as bootstrapping data fusion and graph mining this publication is ideally designed for IT specialists managers policymakers analysts software engineers academicians and researchers Intelligent Cities Pethuru Raj, Anupama C. Raman, 2015-06-15 The emergence of highly promising and potent technologies has enabled the transition of ordinary objects into smart artifacts providing wider connectivity of digitized entities that can facilitate the building of connected cities This book provides readers with a solid foundation on the latest technologies and tools required to develop and enhance smart cities around the world The book begins by examining the rise of the cloud as the fundamental technology for establishing and sustaining smart cities and enterprises Explaining the principal technologies and platform solutions for implementing intelligent cities the book details the role of various technologies standards protocols and tools in establishing flexible homes and the buildings of the future Examines IT platforms and tools from various product vendors Considers service oriented architecture and event driven architecture for smart city applications Explains how to leverage big data analytics for smart city enhancement and improved decision making Includes case studies of intelligent cities smart homes buildings transports healthcare systems and airports The authors explore the convergence of cloud computing and enterprise architecture and present valuable information on next generation cloud computing They also cover the various architectural types including enterprise scale integration security management and governance The book concludes by explaining the various security requirements of intelligent cities as well as the threats and vulnerabilities of the various components that form the basis of the intelligent city framework including cloud big data Internet of Things and mobile technologies **Understanding the Digital World** Brian W. Kernighan, 2017-01-24 The basics of how computer hardware software and systems work and the risks they create for our privacy and security Computers are everywhere Some of them are highly visible in laptops tablets cell phones and smart watches But most are invisible like those in appliances cars medical equipment transportation systems

power grids and weapons We never see the myriad computers that quietly collect share and sometimes leak vast amounts of personal data about us Through computers governments and companies increasingly monitor what we do Social networks and advertisers know far more about us than we should be comfortable with using information we freely give them Criminals have all too easy access to our data Do we truly understand the power of computers in our world Understanding the Digital World explains how computer hardware software networks and systems work Topics include how computers are built and how they compute what programming is and why it is difficult how the Internet and the web operate and how all of these affect our security privacy property and other important social political and economic issues This book also touches on fundamental ideas from computer science and some of the inherent limitations of computers It includes numerous color illustrations notes on sources for further exploration and a glossary to explain technical terms and buzzwords Understanding the Digital World is a must read for all who want to know more about computers and communications It explains precisely and carefully not only how they operate but also how they influence our daily lives in terms anyone can understand no matter what their experience and knowledge of technology

Research Anthology on Agile Software, Software Development, and Testing Management Association, Information Resources, 2021-11-26 Software development continues to be an ever evolving field as organizations require new and innovative programs that can be implemented to make processes more efficient productive and cost effective Agile practices particularly have shown great benefits for improving the effectiveness of software development and its maintenance due to their ability to adapt to change It is integral to remain up to date with the most emerging tactics and techniques involved in the development of new and innovative software The Research Anthology on Agile Software Software Development and Testing is a comprehensive resource on the emerging trends of software development and testing This text discusses the newest developments in agile software and its usage spanning multiple industries Featuring a collection of insights from diverse authors this research anthology offers international perspectives on agile software Covering topics such as global software engineering knowledge management and product development this comprehensive resource is valuable to software developers software engineers computer engineers IT directors students managers faculty researchers and academicians

InfoWorld, 1992-03-09 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects

Cognitive Computing with IBM Watson Rob High, Tanmay Bakshi, 2019-04-30 Understand design and create cognitive applications using Watson's suite of APIs Key Features Develop your skills and work with IBM Watson APIs to build efficient and powerful cognitive apps Learn how to build smart apps to carry out different sets of activities using real world use cases Get well versed with the best practices of IBM Watson and implement them in your daily work Book Description Cognitive computing is rapidly infusing every aspect of our lives riding on three important fields data science machine learning ML and artificial intelligence AI It allows computing systems to learn and keep on improving as the amount of data

in the system grows This book introduces readers to a whole new paradigm of computing a paradigm that is totally different from the conventional computing of the Information Age You will learn the concepts of ML deep learning DL neural networks and AI through the set of APIs provided by IBM Watson This book will help you build your own applications to understand plan and solve problems and analyze them as per your needs You will learn about various domains of cognitive computing such as NLP voice processing computer vision emotion analytics and conversational systems using different IBM Watson APIs From this the reader will learn what ML is and what goes on in the background to make computers do their magic as well as where these concepts have been applied Having achieved this the readers will then be able to embark on their journey of learning researching and applying the concept in their respective fields What you will learn Get well versed with the APIs provided by IBM Watson on IBM Cloud Learn ML AI cognitive computing and neural network principles Implement smart applications in fields such as healthcare entertainment security and more Understand unstructured content using cognitive metadata with the help of Natural Language Understanding Use Watson's APIs to create real life applications to realize their capabilities Delve into various domains of cognitive computing such as media analytics embedded deep learning computer vision and more Who this book is for This book is for beginners and novices having some knowledge about artificial intelligence and deep learning is an advantage but not a prerequisite to benefit from this book We explain the concept of deep learning and artificial intelligence through the set of tools IBM Watson provides

IBM Power System IC922

Technical Overview and Introduction Scott Vetter, Young Hoon Cho, Stephen Lutz, IBM Redbooks, 2021-05-20 This IBM Redpaper publication is a comprehensive guide that covers the IBM Power System IC922 9183 22X server that uses IBM POWER9™ processor based technology and supports Linux operating systems OSs The objective of this paper is to introduce the system offerings and their capacities and available features The Power IC922 server is built to deliver powerful computing scaling efficiency and storage capacity in a cost optimized design to meet the evolving data challenges of the artificial intelligence AI era It includes the following features High throughput and performance for high value Linux workloads such as inferencing data or storage rich workloads or cloud Potentially low acquisition cost through system optimization such as using industry standard memory and warranty Two IBM POWER9 processor based single chip module SCM devices that provide high performance with 24 32 or 40 fully activated cores and a maximum 2 TB of memory Up to six NVIDIA T4 graphics processing unit GPU accelerators Up to twenty four 2.5 inch SAS SATA drives One dedicated and one shared 1 Gb Intelligent Platform Management Interface IPMI port This publication is for professionals who want to acquire a better understanding of IBM Power Systems products The intended audience includes Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors ISVs This paper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power IC922 server

Intelligent Systems and Applications Kohei Arai, 2025-09-22 The 11th Intelligent

Systems Conference IntelliSys 2025 held in Amsterdam The Netherlands from 28-29 August 2025 brought together researchers practitioners and experts from around the world to share advancements in intelligent technologies Conducted in a hybrid format the conference facilitated global collaboration and participation This volume presents a curated selection of 169 peer reviewed papers from a total of 470 submissions covering key areas such as Artificial Intelligence Computer Vision Robotics and Intelligent Systems The contributions reflect the latest research trends practical applications and emerging challenges in these domains We hope that these proceedings serve as a valuable resource for researchers practitioners and students and that they inspire future work and collaborations in the field of intelligent systems

Teaching and Learning Advances on Sensors for IoT Sergio Martin, 2021-04-14 This book focuses on all the technologies involved in improving the teaching and learning process of some of the sensor based IoT topics such as virtual sensors simulated data acquisition virtual and remote labs for IoT sensing gamification experiences and innovative teaching materials among others In particular the articles inside the book show excellent works about hot topics such as Remote labs for IoT teaching including the full development cycle Practical guides for IoT cybersecurity Innovative multimodal learning analytics architecture that builds on software defined networks and network function virtualization principles Problem based learning experiences using designed complex sensor based IoT ecosystems with sensors actuators microcontrollers plants soils and irrigation systems Block based programming extensions to facilitate the creation of mobile apps for smart learning experiences The articles published in this book present only some of the most important topics about sensor based IoT learning and teaching However the selected papers offer significant studies and promising environments

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Getting Started With Python On Ibm I Gateway 4 Introduction

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