Bpb Publications Network Complete

Machine Learning for Beginners
Handbook of Cloud Computing
Computer Network Simulation in Ns2
Learn SQL with MySQL
Time Series Forecasting using Deep Learning
Wireshark Network Analysis
Python Network Programming Cookbook
Modern Communication with Social Media
Deep Learning with C#, .Net and Kelp.Net
Python Data Persistence
Let Us Python
Modern Cybersecurity Practices
Modern Computer Hardware Course - Rev. & Updated Edn.
Cases on Edge Computing and Analytics
Learning Salesforce Development with Apex
C++ Neural Networks and Fuzzy Logic
Holy Bible (NIV)
Hands-on DevOps with Linux
IT Infrastructure Automation Using Ansible
Data Science Fundamentals and Practical Approaches
Evolving Networking Technologies
IT Tools & Network Basics
Data Communication and Networking
Neural Network for Beginners
Image Processing Masterclass with Python

Computer Fundamentals and Applications
Net-Studies in Library and Information Science
Network Modeling, Simulation and Analysis in MATLAB
Network Routing
Generative Adversarial Networks with Industrial Use Cases
Internet: The Complete Reference, Millennium Edition
Building Enterprise Blockchain Solutions on AWS
Beginning C++ Programming
Securing Networks with ELK Stack
Building Server-side and Microservices with Go
Machine Learning and Deep Learning in Real-Time Applications
Computer Networks
Elements of Deep Learning for Computer Vision
Java in Depth
Comprehensive Computer and Languages

GONZALES ZOE

Machine Learning for Beginners
Firewall Media
The purpose of this book is first to study MATLAB programming concepts, then the basic concepts of modeling and simulation analysis, particularly focus on digital communicatio n simulation. The book will cover the topics practically to describe network routing simulation using MATLAB tool. It will cover the

dimensions' like Wireless network and WSN simulation using MATLAB, then depict the modeling and simulation of vehicles power network in detail along with considering different case studies. Key features of the book include: Discusses different basics and advanced methodology with their fundamental concepts of exploration and exploitation in NETWORK SIMULATION.

Elaborates practice questions and simulations in MATLAB Student-friendly and Concise Useful for UG and PG level research scholar Aimed at Practical approach for network simulation with more programs with step by step comments. Based on the Latest technologies, coverage of wireless simulation and WSN concepts and implementations

Handbook of Cloud Computing

BPB Publications This book describes, lucidly, asynchronous and synchronous data, multiplexers, radio waves propagation, VHF, microwaves, VSAT and satellite communication links and data transmission modes, in such a manner, that students of science, arts or commerce streams can understand these technical subjects easily.Data

Modem, multichannel data communicatio n and pulse code modulation are dealt in detail. Data networks and topology-both logical and physical-are described followed by a large number of illustrations and examples for ease of understanding . fiber optic communicatio n and data communicatio n systems are explained in such a manner that even a novice can easily understand the functioning of such complex technologies. Most of these topics are included in the curriculum of BCA, B.E. courses in Computer Science and Electronics as well as in MCA, AMIE, IETE, GNIIT courses and also in Diploma courses conducted by Technical Boards of Education. It is hoped that this book will serve the dual purpose-a textbook for all these courses and an extremely useful reference source for experienced electronic engineers and computer professionals. A special characteristic of this book is that large number of solved sample questions and answers are included at the end of each chapter. Readers can evaluate their progress easily by answering these questions and comparing with the answers provided *Computer Network Simulation in*

Ns2 BPB Publications Modern C++ at your fingertips! About This Book This book gets you started with the exciting world of C++ programming It will enable you to write C++ code that uses the standard library, has a level of object orientation, and uses memory in a safe and effective way It forms the basis of programming and covers concepts such as data structures and the core programming language Who This Book Is For A computer, an internet connection, and the desire to learn how to code in C++ is all you need to get started with this book. What You Will Learn Get familiar with the structure of C++ projects Identify the main structures in the language: functions and classes Feel confident about being able to identify the execution flow through the code Be aware of the facilities of the standard library Gain insights into the basic concepts of object orientation Know how to debug your programs Get acquainted with the standard C++ library In Detail C++ has come a long way and is now adopted in several contexts. Its key strengths are its software infrastructure and resource-constrained applications, including

desktop applications, servers, and performance-critical applications, not to forget its importance in game programming. Despite its strengths in these areas, beginners usually tend to shy away from learning the language because of its steep learning curve. The main mission of this book is to make you familiar and comfortable with C++. You will finish the book not only being able to write your own code, but more importantly, you will be able to read other projects. It is only by being able to read others' code that you will progress from a beginner to an advanced programmer. This book is the first step in that progression. The first task is to familiarize you with the structure of C++ projects so you will know how to start reading a project. Next, you will be able to identify the main structures in the language, functions, and classes, and feel confident being able to identify the execution flow through the code. You will then become aware of the facilities of the standard library and be able to determine whether you need to write a routine yourself, or use an existing routine in the standard library. Throughout the book, there is a big emphasis on memory and pointers. You

will understand memory usage, allocation, and access, and be able to write code that does not leak memory. Finally, you will learn about C++ classes and get an introduction to object orientation and polymorphism. Style and approach This straightforward tutorial will help you build strong skills in C++ programming, be it for enterprise software or for low-latency applications such as games or embedded programming. Filled with examples, this book will take you gradually up the steep learning curve of C++.

Learn SQL with MySQL

McGraw Hill Professional

Master the Internet Universe. Prepare yourself for the Internet millennium with Internet: The Complete Reference, Millennium Edition, by Margaret Levine Young. This netizen's bible puts you in charge of everything the Internet has to offer--from basic e-mail to hyper-secure Web commerce. It shows you how to get the most out of Netscape Navigator and Internet Explorer...create advanced Web pages with graphics...transfer files...take advantage of voice and video conferencing...even register your own domain name. Keep this unmatched resource at your keyboard to: Become an

instant expert on Microsoft FrontPage, e-commerce, push technology, and real-time audio and video streaming; Connect to the Internet using such high-speed technologies as cable modems, ISDN, and ADSL; Quickly and safely download and install software from the Web; Increase your Web enjoyment--and profit--with chat sessions, conferences, subscriptions, and newsgroups; And much, much more. Time Series Forecasting using Deep Learning BPB Publications Get hands on with Kelp.Net, Microsoft's latest Deep Learning frameworkKey features Deep Learning Basics The ultimate Kelp.Net reference guide Develop state of the art deep learning applications C# deep learning code Develop advanced deep learning models with minimal code Develop your own advanced deep learning models Loading and Saving Deep Learning Models Comprehensive Kelp.Net reference Sample Deep Learning Models and Tests penCL Reference Easily add deep learning to your applications Many sample models and tests Intuitive and user friendly Description Deep Learning with Kelp.Net is the ultimate reference for C# .Net

developers who are passionate about deep learning. Readers will learn all the skills necessary to develop powerful, scalable and flexible deep learning models from a fluid and easy to use API. Upon completing the book the reader will have all the tools necessary to add powerful deep learning capabilities to their new or existing applications.What will you learn In-depth knowledge of Kelp.Net How to develop deep learning models C# deep learning programming Open-Computing Language (OpenCL) Loading and saving deep learning models How to develop and use activation functions How to test deep learning modelsWho this book is for This book targets C# .Net developers who are passionate about deep learning yet want to do so from an easy and intuitive API.Table of contents1. Introduction2. ML/DL Terms and Concepts3. Deep Instrumentation4. Kelp.Net Reference5. Loading and Saving Models6. Model Testing and Training7. Sample Deep Learning Tests8. Creating Your Own Deep Learning Tests9. Appendix A: Evaluation Metrics10. Appendix B: OpenCL About the authorMatt R. Cole is a

seasoned developer and published author with over 30 years' experience in Microsoft Windows, C, C++, C# and .Net. Matt is the owner of Evolved AI Solutions, a premier provider of advanced Machine Learning/Bio-AI technologies. Matt developed the first enterprise grade MicroService framework written completely in C# and .Net, which is used in production by a major hedge fund in NYC. Matt also developed the first Bio Artificial Intelligence framework which completely integrates mirror and canonical neurons. He continues to push the limits of Machine Learning, Biological Artificial Intelligence, Deep Learning and MicroServices. In his spare time Matt loves to continue his education and contribute to open source efforts such as Kelp.Net. His Website: www.evolvedaisolutions.com His LinkedIn Profile: https://www.linkedin.com/in/evolvedai/His Blog: https://evolvedaisolutions.com/blog.html

Wireshark Network Analysis BPB Publications Network Routing: Fundamentals, Applications and Emerging Technologies serves as single point of reference for both advanced undergraduate and graduate students studying

network routing, covering both the fundamental and more moderately advanced concepts of routing in traditional data networks such as the Internet, and emerging routing concepts currently being researched and developed, such as cellular networks, wireless ad hoc networks, sensor networks, and low power networks.

Python Network Programming Cookbook

Packt Publishing Ltd

Discover practical solutions for a wide range of real-world network programming tasks About This Book Solve real-world tasks in the area of network programming, system/networking administration, network monitoring, and more. Familiarize yourself with the fundamentals and functionalities of SDN

Improve your skills to become the next-gen network engineer by learning the various facets of Python programming Who This Book Is For This book is for network engineers, system/network administrators, network programmers, and even web application developers who want to solve everyday network-related problems. If you are a novice, you will develop

an understanding of the concepts as you progress with this book. What You Will Learn Develop TCP/IP networking client/server applications Administer local machines' IPv4/IPv6 network interfaces Write multi-purpose efficient web clients for HTTP and HTTPS protocols Perform remote system administration tasks over Telnet and SSH connections Interact with popular websites via web services such as XML-RPC, SOAP, and REST APIs Monitor and analyze major common network security vulnerabilities Develop Software-Defined Networks with Ryu, OpenDaylight, Floodlight, ONOS, and POX Controllers Emulate simple and complex networks with Mininet and its extensions for network and systems emulations Learn to configure and build network systems and Virtual Network Functions (VNF) in heterogeneous deployment environments Explore various Python modules to program the Internet In Detail Python Network Programming Cookbook - Second Edition highlights the major aspects of network programming in Python, starting from writing simple networking clients to

developing and deploying complex Software-Defined Networking (SDN) and Network Functions Virtualization (NFV) systems. It creates the building blocks for many practical web and networking applications that rely on various networking protocols. It presents the power and beauty of Python to solve numerous real-world tasks in the area of network programming, network and system administration, network monitoring, and web-application development. In this edition, you will also be introduced to network modelling to build your own cloud network. You will learn about the concepts and fundamentals of SDN and then extend your network with Mininet. Next, you'll find recipes on Authentication, Authorization, and Accounting (AAA) and open and proprietary SDN approaches and frameworks. You will also learn to configure the Linux Foundation networking ecosystem and deploy and automate your networks with Python in the cloud and the Internet scale. By the end of this book, you will be able to analyze your network security vulnerabilities using advanced network

packet capture and analysis techniques. Style and approach This book follows a practical approach and covers major aspects of network programming in Python. It provides hands-on recipes combined with short and concise explanations on code snippets. This book will serve as a supplementary material to develop hands-on skills in any academic course on network programming. This book further elaborates network softwarization, including Software-Defined Networking (SDN), Network Functions Virtualization (NFV), and orchestration. We learn to configure and deploy enterprise network platforms, develop applications on top of them with Python. **Modern Communication with Social Media** Zondervan DESCRIPTION This simple, well organized book provides the theory as well as the practical aspects of computer network. It covers the pillars of a computer network, like transmission, data transfer, and communication. It covers foundational concepts, explaining the OSI and TCP/IP models, digital transmission, interfaces, modems, and media characteristics like attenuation and

throughput. It focuses on telephony, multiplexing techniques (FDM, TDM, and WDM), error correction, and ISDN. The book goes deep into network infrastructure, detailing devices like repeaters, bridges, and routers. It explores the transport layer and upper OSI layers for reliable data delivery and application formatting. It discusses network connections, encoding, error detection, Ethernet, switching, bridging, and routing. The book covers advanced topics like MPLS, mobile routing, TCP, RPC, congestion control, and QoS. It focuses on network security, including encryption, authentication, firewalls, and intrusion detection systems. This book is an ideal guide for beginners, irrespective of their roles, to learn and become masters in computer networking. This book is targeted for a wide and diverse readership, from school students to software professionals to academic researchers.

KEY FEATURES

● All the basic concepts in computer networks explained clearly. ● Descriptive and conceptual questions provided at end of each chapter. ● Each concept and syntax explained with sufficient diagrams. ●

Understand the core concepts related to computer networks and related technology. WHAT YOU WILL LEARN ● Discover how to build a strong foundation in networking and related technologies. ● Learn about various network technologies and their applications. ● Gain insights into designing network applications. ● Find ways to fast-track your career by identifying the right technology and employer. ● Enhance your employability and stay relevant by addressing potential issues and connecting with growth strategies. WHO THIS BOOK IS FOR This book is for current and aspiring network professionals, students, and anyone who wishes to understand how to have rewarding knowledge in computer networks, networking based emerging technologies, and more. TABLE OF CONTENTS 1. Basic Concepts 2. Telephony 3. Integrated Services Digital Network 4. Networking Devices 5. Network Layer 6. Transport Layer and Upper Layers in OSI Model 7. Foundation 8. Internetworking 9. Advanced Internetworking 10. End-to-End Protocols 11. Congestion Control and Resource Allocation 12. Multimedia

Networking 13. Network Security **Deep Learning with C#, .Net and Kelp.Net** BPB Publications Expert solutions to automate routine IT tasks using Ansible. KEY FEATURES ● Single handy guide for all IT teams to bring automation throughout the enterprise. ● In-depth practical demonstration of various automation use-cases on the IT infrastructure. ● Expert-led guidelines and best practices to write Ansible playbooks without any errors. DESCRIPTION This book deals with all aspects of Ansible IT infrastructure automation. While reading this book, you should look for automation opportunities in your current role and automate time-consuming and repetitive tasks using Ansible. This book contains Ansible fundamentals assuming you are totally new to Ansible. Proper instructions for setting up the laboratory environment to implement each concept are explained and covered in detail. This book is equipped with practical examples, use-cases and modules on the network. The system and cloud management are practically demonstrated in the book. You will learn to automate all the common administrative tasks throughout the entire IT

infrastructure. This book will help establish and build the proficiency of your automation skills, and you can start making the best use of Ansible in enterprise automation. WHAT WILL YOU LEARN ● Install Ansible and learn the fundamentals. ● Use practical examples and learn about the loop, conditional statements, and variables. ● Understand the Ansible network modules and how to apply them in our day-to-day network management. ● Learn to automate the Windows and Linux infrastructure using Ansible. ● Automate routine administrative tasks for AWS, Azure, Google Cloud. ● Explore how to use Ansible for Docker and Kubernetes. WHO THIS BOOK IS FOR This book is for all IT students and professionals who want to manage or plan to administer the IT infrastructure. Knowing the basic Linux command-line would be good although not mandatory. TABLE OF CONTENTS 1. Up and Running with Ansible 2. Ansible Basics 3. Ansible Advance Concepts 4. Ansible for Network Administration 5. Ansible for System Administration 6. Ansible for Cloud Administration 7. Ansible Tips and Tricks

Python Data Persistence

BPB Publications

Strengthening networks,

redefining security: ELK Stack leading the charge KEY FEATURES ● This book provides a thorough examination of zero trust network architecture, ELK Stack, and Elastic Security, encompassing foundational principles and practical deployment strategies. ● Readers gain practical insights into building resilient zero trust networks, leveraging ELK Stack's capabilities for data gathering, visualization, and advanced analytics. ● Through real-world case studies and examples, the book illustrates how to integrate Zeek and Elastic Security effectively. DESCRIPTION Step into the dynamic world of zero trust network architecture with this comprehensive handbook. Starting with an exploration of zero trust principles, each chapter unveils new insights and practical strategies. From crafting strategic blueprints to implementing hands-on deployment tactics, discover the intricacies of building a resilient zero trust network capable of thwarting modern threats. Journey through the extensive capabilities of ELK Stack, essential for fortifying a zero trust paradigm. Learn the nuances of data acquisition strategies and efficient

ingestion methods with ELK, enabling robust data visualization and dashboard creation using Kibana. Explore advanced functionalities like Machine Learning driven anomaly detection to enhance your defenses against emerging threats. Explore Elastic Security's suite, encompassing threat detection, incident response, and compliance reporting, crucial elements in strengthening network defenses. Utilize the transformative potential of Zeek in network security, from foundational principles to advanced integration with Elastic Security. Real-world case studies showcase the synergy between Zeek and Elastic Security, providing insights into future-proof network protection strategies. Arm yourself with the knowledge and tools necessary to navigate the evolving landscape of network security. Traverse the realms of zero trust architecture, ELK Stack, and Elastic Security, empowered by practical insights and real-world applications. WHAT YOU WILL LEARN ● Understanding the core principles and intricacies of zero trust network architecture. ● Designing and deploying a robust zero

trust network using strategic methodologies . ● Leveraging ELK Stack's capabilities to support and enhance a zero trust approach. ● Implementing effective data gathering and ingestion strategies with ELK. ● Mastering data visualization and dashboard creation using Kibana for actionable insights. WHO THIS BOOK IS FOR The book is primarily aimed at security professionals, network architects, and IT managers who are responsible for securing their organization's network infrastructure and sensitive data. The book is suitable for both technical and non-technical readers. TABLE OF CONTENTS 1. Introduction to Zero Trust Network Architecture 2. Zero Trust Network Architecture: Design and Deployment Strategies 3. Zero Trust Network Architecture: Data Gathering Strategies 4. Overview of ELK Stack and its Capabilities 5. Design of ELK Stack Components 6. Data Ingestion with ELK 7. Data Visualization with ELK 8. Effective Dashboards with Kibana 9. Unlocking Insights: ELK’s Machine Learning Capabilities 10. Introduction to Elastic Security 11. Threat Detection and Prevention 12. Incident Response and Investigation

13. Compliance and Reporting 14. Introduction to Zeek 15. Zeek Data Collection and Analysis 16. Unlocking Synergies: Zeek and Elastic Security Integration in Action 17. Future Directions for Elastic Security 18. A Unified Recap: Safeguarding Networks with ELK

Let Us Python BPB Publications Designed to provide an insight into the SQL and MySQL database concepts using python DESCRIPTION Python is becoming increasingly popular among data scientists. However, analysis and visualization tools need to interact with the data stored in various formats such as relational and NOSQL databases. This book aims to make the reader proficient in interacting with databases such as MySQL, SQLite, MongoDB, and Cassandra. This book assumes that the reader has no prior knowledge of programming. Hence, basic programming concepts, key concepts of OOP, serialization and data persistence have been explained in such a way that it is easy to understand. NOSQL is an emerging technology. Using MongoDB and Cassandra, the two widely used NOSQL databases are explained in detail. The

knowhow of handling databases using Python will certainly be helpful for readers pursuing a career in Data Science. KEY FEATURES A practical approach Ample code examples A Quick Start Guide to Python for beginners WHAT WILL YOU LEARN Python basics and programming fundamentals Serialization libraries pickle, CSV, JSON, and XML DB-AP and, SQLAlchemy Python with Excel documents Python with MongoDB and Cassandra WHO THIS BOOK IS FOR Students and professionals who want to become proficient at database tools for a successful career in data science. Table of Contents 1. Ê Ê Getting Started 2. Ê Ê Program Flow Control 3. Ê Ê Structured Python 4. Ê Ê Python Đ OOP 5. Ê Ê File IO 6. Ê Ê Object Serialization 7. Ê Ê RDBMS Concepts 8. Ê Ê Python DB-API 9. Ê Ê Python Đ SQLAlchemy 10. Ê Python and Excel 11. Ê Python Đ PyMongo 12. Ê Python Đ Cassandra

Modern Cybersecurity Practices

BPB Publications Learn to design the Mobile Ad-hoc Networks DESCRIPTION Network Simulation is the most sought after research field, and it has now become an integral part of many research projects like commercial applications and academic

research. The networking and communications domain ranges from finding friends on social networking sites to medical diagnosis to smart cities implementation and even satellite processing. In this book, we have made an honest effort to make the concepts of network simulation easyÑall the basics programs are explained in an easy and simple manner in the NS2 simulator, right from the installation part. As the real-time application of networking and communications is endless, the basic concepts and algorithms are discussed using the NS2 simulator so that everyoneÑfrom graduate students to researchersÑcan benefit from this book. KEY FEATURES - Installing NS2 and running simple examples - Creating and incorporating the network module - All the built-in NS2 modules are explained in a comprehensive manner - Details of Network AniMator (NAM) and Xgraph - Simple language, crystal clear approach, and a straightforward comprehensible presentation - The concepts are duly supported by several examples WHAT WILL YOU LEARN Readers will get to know a conspicuous difference of how NS2 is

being utilized as a product device in research and business applications. Today, applying network simulations does not require a PhD. Nonetheless, there are a couple of assets out there that completely cover all the essential parts of actualizing networking and communicatio ns, without expecting you to take the advanced math courses. We believe that this book will help any individual who needs to apply network simulation, without studying years of analytics, calculus math, and probability hypothesis. WHO THIS BOOK IS FOR The book is basically meant for all those graduate and research students who find the algorithms and protocols of networking and communicatio ns difficult to implement. In this book, all basic protocols of networking and simulation are discussed in detail with a practical approach. Primarily, beginners can find this book more effective as the chapters are sub-divided in such a way that they will find building and implementing algorithms in NS2 interesting and easy. Table of Contents 1. Introduction to Network Simulation 2. Tool Command Language 3. Writing and Executing a TCL Scripting

with NS2 4. Practical Examples for Wired Program in NS2 5. Mobile Networking in NS2

Modern Computer Hardware Course - Rev. & Updated Edn. BPB Publications

A step-by-step guide that will help you manage data in a relational database using SQL with ease Key Features a- Understand the concepts related to relational databases. a- Learn how to install MariaDB and MySQL on Windows, Linux and tools to access it. a- Learn how to connect Python and Pandas to MySQL/MariaDB. Description This book starts with the concepts in RDBMS (Relational Database Management Systems) and SQL (Structured Query Language). The first few chapters cover the definitions and a brief explanation of all the important concepts. They also cover the installation of MariaDB and MySQL on Windows and Raspberry Pi, as well as the setup of various tools used to connect to MySQL and MariaDB server processes. We will also understand how to install sample schemas and how to use basic SQL queries. Then we move on to the SELECT query in detail. The book explores the data retrieval

aspect of SQL queries in detail with the WHERE clause and NULL handling in detail. The book also explores the functions available in MySQL. Those are single row and group functions. Then we explore how to combine the data from multiple sources. The technique is known as Joins, and we will learn ANSI style and the old-style syntax for all the types of Joins. The last part explores the DDL and DMLs in depth. We also learn the concepts of Transactions and Constraints. The book explores how we can run the SQL queries from a Python 3 program and load a pandas DataFrame with the data from a table in a schema in the MySQL database. What will you learn a- Understand the basics of MySQL and MariaDB. a- Get familiar with MySQL Arithmetic Operators, DDL, DML, DCL & TCL commands. a- Understand the concept of Single-Row Functions and Group Functions in detail. a- Retrieve data from multiple sources using the Joins. Who this book is for This book is designed for beginners as well as professionals alike. The book will also be useful to Data Scientists, Data Analysts, Database Administrators , and Data Engineers. Table of Contents 1. Introduction

and Installation 2. Getting Started with MySQL 3. Getting Started with SQL Queries 4. The WHERE clause in detail 5. Single Row Functions 6. Group Functions 7. Joins in MySQL 8. Subqueries 9. DDL, DML, and Transactions 10. Views 11. Python 3, MySQL, and Pandas About the Author Ashwin is an experienced veteran who, for the past 25 years, has been working with STEM (Science, Technology, Engineering, and Mathematics). In his career, Ashwin has worked for more than 7 years as an employee for various IT companies and Software Product Companies. He has written more than 2 dozen books on Arduino, Python programming, Computer Vision, IoT, databases, and other popular topics with BPB and other international publications. He has also reviewed many other technical books. He also creates courses for BPB and other platforms and teaches to 60000 students online. He has been working as a freelancer since 2017. He got his first taste in writing in 2015 when he wrote his first book on Raspberry Pi. In his free time, Ashwin makes videos for his Youtube channel, which has 10000 subscribers

now. Outside work, Ashwin volunteers his spare time as a STEM Ambassador, helping, coaching, and mentoring young people in taking up careers in technology.
Your Blog links: https://www.youtube.com/ashwinpajankar
Your LinkedIn Profile: https://www.linkedin.com/in/ashwinpajankar/

Cases on Edge Computing and Analytics
John Wiley & Sons

Over 50 problems solved with classical algorithms + ML / DL models KEY FEATURESÊ _ Problem-driven approach to practice image processing.Ê _ Practical usage of popular Python libraries: Numpy, Scipy, scikit-image, PIL and SimpleITK. _ End-to-end demonstration of popular facial image processing challenges using MTCNN and MicrosoftÕs Cognitive Vision APIs. Ê DESCRIPTIONÊ This book starts with basic Image Processing and manipulation problems and demonstrates how to solve them with popular Python libraries and modules. It then concentrates on problems based on Geometric image transformations and problems to be solved with Image hashing.Ê Next, the book focuses on solving problems based on Sampling,

Convolution, Discrete Fourier transform, Frequency domain filtering and image restoration with deconvolution. It also aims at solving Image enhancement problems using differentÊ algorithms such as spatial filters and create a super resolution image using SRGAN. Finally, it explores popular facial image processing problems and solves them with Machine learning and Deep learning models using popular python ML / DL libraries. WHAT YOU WILL LEARNÊÊ _ Develop strong grip on the fundamentals of Image Processing and Image Manipulation. _ Solve popular Image Processing problems using Machine Learning and Deep Learning models. _ Working knowledge on Python libraries including numpy, scipyÊ and scikit-image. _ Use popular Python Machine Learning packages such as scikit-learn, Keras and pytorch. _ Live implementation of Facial Image Processing techniques such as Face Detection / Recognition / Parsing dlib and MTCNN. WHO THIS BOOK IS FORÊÊÊ This book is designed specially for computer vision users, machine learning engineers, image processing experts who

are looking for solving modern image processing/computer vision challenges. TABLE OF CONTENTS 1. Chapter 1: Basic Image & Video Processing 2. Chapter 2: More Image Transformation and Manipulation 3. Chapter 3: Sampling, Convolution and Discrete Fourier Transform 4. Chapter 4: Discrete Cosine / Wavelet Transform and Deconvolution 5. Chapter 5: Image Enhancement 6. Chapter 6: More Image Enhancement 7. Chapter 7: Facel Image Processing *Learning Salesforce Development with Apex* BPB Publications Conceptualizing deep learning in computer vision applications using PyTorch and Python libraries. KEY FEATURES ● Covers a variety of computer vision projects, including face recognition and object recognition such as Yolo, Faster R-CNN. ● Includes graphical representations and illustrations of neural networks and teaches how to program them. ● Includes deep learning techniques and architectures introduced by Microsoft, Google, and the University of Oxford. DESCRIPTION Elements of Deep Learning for Computer Vision gives a thorough understanding of deep learning and provides highly accurate

computer vision solutions while using libraries like PyTorch. This book introduces you to Deep Learning and explains all the concepts required to understand the basic working, development, and tuning of a neural network using Pytorch. The book then addresses the field of computer vision using two libraries, including the Python wrapper/version of OpenCV and PIL. After establishing and understanding both the primary concepts, the book addresses them together by explaining Convolutional Neural Networks(CNNs). CNNs are further elaborated using top industry standards and research to explain how they provide complicated Object Detection in images and videos, while also explaining their evaluation. Towards the end, the book explains how to develop a fully functional object detection model, including its deployment over APIs. By the end of this book, you are well-equipped with the role of deep learning in the field of computer vision along with a guided process to design deep learning solutions. WHAT YOU WILL LEARN ● Get to know the mechanism of deep learning and how neural networks

operate. ● Learn to develop a highly accurate neural network model. ● Access to rich Python libraries to address computer vision challenges. ● Build deep learning models using PyTorch and learn how to deploy using the API. ● Learn to develop Object Detection and Face Recognition models along with their deployment. WHO THIS BOOK IS FOR This book is for the readers who aspire to gain a strong fundamental understanding of how to infuse deep learning into computer vision and image processing applications. Readers are expected to have intermediate Python skills. No previous knowledge of PyTorch and Computer Vision is required. TABLE OF CONTENTS 1. An Introduction to Deep Learning 2. Supervised Learning 3. Gradient Descent 4. OpenCV with Python 5. Python Imaging Library and Pillow 6. Introduction to Convolutional Neural Networks 7. GoogLeNet, VGGNet, and ResNet 8. Understanding Object Detection 9. Popular Algorithms for Object Detection 10. Faster RCNN with PyTorch and YoloV4 with Darknet 11. Comparing Algorithms and API Deployment

with Flask 12. Applications in Real World

C++ Neural Networks and Fuzzy Logic
IGI Global

Manage Linux Servers on-premises and cloud with advanced DevOps techniques using Kubernetes Ê KEY FEATURESÊÊ _ Detailed coverage on architecture of Web Servers, Databases, and Cloud Servers. _ Practical touch on deploying your application and managing cloud infrastructure using Docker and Terraform. _ Simplified implementation of Infrastructure as Code with Vagrant. _ Explore the use of different cloud services for better provisioning, scalability, and reliability of enterprise applications. DESCRIPTIONÊ Hands-on DevOps with Linux brings you advanced learnings on how to make the best use of Linux commands in managing the DevOps infrastructure to keep enterprise applications up-to-date. The book begins by introducing you to the Linux world with the most used commands by DevOps experts and teaches how to set up your own infrastructure in your environment. The book covers exclusive coverage on production scenarios using Kubernetes and how the entire container orchestration

is managed.Ê Throughout the book, you will get accustomed to the most widely used techniques among DevOps Engineers in their routine.Ê You will explore how infrastructure as code works, working with Vagrant, Docker and Terraform through which you can manage the entire cloud deployment of applications along with how to scale them on your own. WHAT YOU WILL LEARN _ Create Infrastructure as Code to replicate the configuration to your infrastructure. _ Learn best methods and techniques to build continuous delivery pipeline using Jenkins. _ Learn to Distribute and scale your applications using Kubernetes. _ Get insights by analyzing millions of server logs using Kibana and Logstash. WHO THIS BOOK IS FORÊÊ This book is best suited for DevOps Engineers and DevOps professionals who want to make best use of Linux commands in managing the DevOps infrastructure daily. It is a good handy guide for Linux administrators and system administrators too to get familiar with the use of Linux in Devops and advance their skillset in DevOps. Ê TABLE OF CONTENTS 1. Getting started with Linux 2. Working with

Bash 3. Setting up a service 4. Configuring a reverse proxy with Nginx 5. Deploying your application using Docker 6. Automating your Infrastructure as Code 7. Creating your infrastructure using cloud services 8. Working with Terraform 9. Working with Git 10. Continuous integration and Continuous Delivery using Jenkins 11. Deploying and scaling your application using Kubernetes 12. Logs with open source Tools

Holy Bible (NIV) BPB Publications

Edge computing and analytics are fascinating the whole world of computing. Industry and business are keenly embracing this sound concept to develop customer-centric solutions by enhancing their operations, offerings, and outputs. There is a bevy of advancements in this domain that came with the arrival of IoT devices. The seamless convergence of microservices and serverless computing creates vast opportunities. With the help of IoT devices and these other developments, there has become a deep interest in business automation and additional improvisations in edge computing. With the steady growth of edge devices and applications of

IoT fog/edge computing and analytics, there are also distinct challenges and threats. Research has been keenly focused on identifying and understanding these issues and shortcomings to bring viable solution approaches and algorithms. Cases on Edge Computing and Analytics describes the latest innovations, improvements, and transformations happening with edge devices and computing. It addresses the key concerns of the edge computing paradigm, how they are processed, and the various technologies and tools empowering edge computing and analytics. While highlighting topics within edge computing such as the key drivers for implementation, computing capabilities, security considerations, and use-cases, this book is ideal for IT industry professionals and project managers, computer scientists, computer engineers, and practitioners, stakeholders, researchers, academicians, and students looking for research on the latest trends and transitions in edge computing. Hands-on DevOps with Linux Vikas Publishing House Explore the infinite possibilities offered by Artificial Intelligence

and Neural Networks KEY FEATURES ● Covers numerous concepts, techniques, best practices and troubleshootin g tips by community experts. ● Includes practical demonstration of robust deep learning prediction models with exciting use-cases. ● Covers the use of the most powerful research toolkit such as Python, PyTorch, and Neural Network Intelligence.

DESCRIPTION This book is amid at teaching the readers how to apply the deep learning techniques to the time series forecasting challenges and how to build prediction models using PyTorch. The readers will learn the fundamentals of PyTorch in the early stages of the book. Next, the time series forecasting is covered in greater depth after the programme has been

developed. You will try to use machine learning to identify the patterns that can help us forecast the future results. It covers methodologies such as Recurrent Neural Network, Encoder-decoder model, and Temporal Convolutional Network, all of which are state-of-the-art neural network architectures. Furthermore, for good measure, we have also introduced the neural

architecture search, which automates searching for an ideal neural network design for a certain task. Finally by the end of the book, readers would be able to solve complex real-world prediction issues by applying the models and strategies learnt throughout the course of the book. This book also offers another great way of mastering deep learning and its various techniques.

WHAT YOU WILL LEARN ● Work with the Encoder-Decoder concept and Temporal Convolutional Network mechanics. ● Learn the basics of neural architecture search with Neural Network Intelligence. ● Combine standard statistical analysis methods with deep learning approaches. ● Automate the search for optimal predictive architecture. ● Design your custom neural network architecture for specific tasks. ● Apply predictive models to real-world problems of forecasting stock quotes, weather, and natural processes.

WHO THIS BOOK IS FOR This book is written for engineers, data scientists, and stock traders who want to build time series forecasting programs using deep learning. Possessing some familiarity of Python is

sufficient, while a basic understanding of machine learning is desirable but not needed. TABLE OF CONTENTS 1. Time Series Problems and Challenges 2. Deep Learning with PyTorch 3. Time Series as Deep Learning Problem 4. Recurrent Neural Networks 5. Advanced Forecasting Models 6. PyTorch Model Tuning with Neural Network Intelligence 7. Applying Deep Learning to Real-world Forecasting Problems 8. PyTorch Forecasting Package 9. What is Next? *IT Infrastructure Automation Using Ansible* BPB Publications Learn how to build a complete machine learning pipeline by mastering feature extraction, feature selection, and algorithm training KEY FEATURES ● Develop a solid understanding of foundational principles in machine learning. ● Master regression and classification methods for accurate data prediction and categorization in machine learning. ● Dive into advanced machine learning topics, including unsupervised learning and deep learning. DESCRIPTION The second edition of “Machine Learning for Beginners” addresses key concepts and subjects in machine learning. The

book begins with an introduction to the foundational principles of machine learning, followed by a discussion of data preprocessing. It then delves into feature extraction and feature selection, providing comprehensive coverage of various techniques such as the Fourier transform, short-time Fourier transform, and local binary patterns. Moving on, the book discusses principal component analysis and linear discriminant analysis. Next, the book covers the topics of model representation, training, testing, and cross-validation. It emphasizes regression and classification, explaining and implementing methods such as gradient descent. Essential classification techniques, including k-nearest neighbors, logistic regression, and naive Bayes, are also discussed in detail. The book then presents an overview of neural networks, including their biological background, the limitations of the perceptron, and the backpropagation model. It also covers support vector machines and kernel methods. Decision trees and ensemble models are also discussed. The final section of the book provides

insight into unsupervised learning and deep learning, offering readers a comprehensive overview of these advanced topics. By the end of the book, you will be well-prepared to explore and apply machine learning in various real-world scenarios. WHAT YOU WILL LEARN ● Acquire skills to effectively prepare data for machine learning tasks. ● Learn how to implement learning algorithms from scratch. ● Harness the power of scikit-learn to efficiently implement common algorithms. ● Get familiar with various Feature Selection and Feature Extraction methods. ● Learn how to implement clustering algorithms. WHO THIS BOOK IS FOR This book is for both undergraduate and postgraduate Computer Science students as well as professionals looking to transition into the captivating realm of Machine Learning, assuming a foundational familiarity with Python. TABLE OF CONTENTS Section I: Fundamentals 1. An Introduction to Machine Learning 2. The Beginning: Data Pre-Processing 3. Feature Selection 4. Feature Extraction 5. Model Development Section II: Supervised Learning 6. Regression 7.

K-Nearest Neighbors 8. Classification: Logistic Regression and Naïve Bayes Classifier 9. Neural Network I: The Perceptron 10. Neural Network II: The Multi-Layer Perceptron 11. Support Vector Machines 12. Decision Trees 13. An Introduction to Ensemble Learning Section III: Unsupervised Learning and Deep Learning 14. Clustering 15. Deep Learning Appendix 1: Glossary Appendix 2: Methods/Techniques Appendix 3: Important Metrics and Formulas Appendix 4: Visualization-Matplotlib Answers to Multiple Choice Questions Bibliography

Data Science Fundamentals and Practical Approaches

John Wiley & Sons

Learn to harness the power of the Apex language to build Salesforce applications Ê KEY FEATURESÊÊ - Learn how to work with the Apex language. - Learn how to develop Apex Triggers. - Learn how to use SOQL and SOSL to retrieve data. - Learn how to write Object-Oriented SalesforceÊ code. - Explore the best practices to deliver scalable and maintainable code. Ê DESCRIPTIONÊ This book covers the fundamentals of the Salesforce Apex programming language used by developers

to build powerful applications in the cloud.Ê In this book, you will learn how to work with the Apex language to build scalable applications that can interact with and update data from your users. We cover the language from the ground up, introducing programming concepts such as variables and control statements alongside clear and concise examples to help you understand the key concepts and features. Platform-specific features such as Apex triggers, SOQL and SOSL are covered in detail to help ensure you deliver robust and scalable solutions. Nuances and best practices for development are discussed along with how to effectively test your code to ensure that you can deploy it to users with confidence. Object-oriented programming in Apex is also covered in-depth to ensure that you can develop dynamic solutions and build for the future. The book also discusses and shows developers how to integrate with third-party solutions using REST APIs in Apex.Ê By the end of the book, the reader will know how to start developing applications using Apex with confidence. Ê WHAT WILL YOU LEARNÊÊ - Learn how to

declare variables in Apex. - Understand how to work with collections in Apex. - Use different control statements within Apex to control program flow. - Learn how to use the built-in tools to test in Apex. - Understand how to make callouts to external applications and data sources. WHO THIS BOOK IS FORÊÊ This book is intended for those starting out with Apex, whether existing Salesforce Admins or those joining the Salesforce ecosystem with little professional prior programming experience, such as students. The reader is expected to have some basic familiarity with Salesforce as a platform, although key concepts are reviewed. TABLE OF CONTENTS 0. Introduction 1. An Introduction to the Salesforce Platform 2. What is Apex? 3. Variables in Apex 4. Collections 5. Control Statements 6. Apex Triggers 7. SOQL 8. SOSL 9. Defining Apex Classes 10. Apex Class Inheritance 11. Testing Apex 12. Callouts in Apex 13. Epilogue

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