# Emerging Technologies

Books

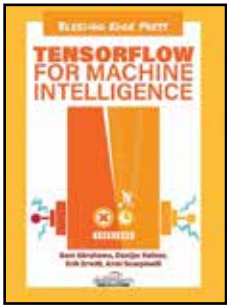2022

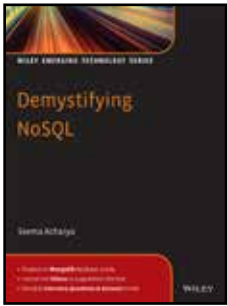# EMERGING TECHNOLOGIES

## Tensorflow For Machine Intelligence

### *Abrahams*

**Description**

• Introduction• TensorFlow Installation• TensorFlow Fundamentals• Machine Learning Basics• Object Recognition and Classification• Recurrent Neural Networks and Natural Language Processing• Deploying Models in Production• Helper Functions, Code Structure, and Classes• Conclusion

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## Building Voice-Enabled Apps with Alexa

### *Becker*

• Introduction• Alexa Overview• Developing and Deploying a Skill• Submitting, Certifying, and Monetizing• The Future
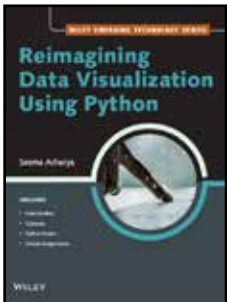
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## Demystifying NoSQL | IM | e

### *Acharya*

• Getting Started with NoSQL • Types of NoSQL Databases • Column-Family Store • MongoDB• Neo4j: A Graph-Based Database • NoSQL Database Orientation

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## Agile Scrum: Improving Practices for Business Gains | IM | e

### *Bedarkar*

• Introduction to Agile Concepts• All about Scrum• Scrum Process: High-Level View• Product Backlog Management• Sprint Planning• Writing Effective User Stories• Sprint Execution and Tracking• Sprint Review• Sprint Retrospectives• Measurements and Metrics in Scrum• Software Development Life Cycle and Waterfall Model• Project Management in Scrum and Waterfall• Quality Management in Scrum• Customer Management in Scrum• Risk Management in Scrum• Cost Management in Scrum• Management Onboarding – First Step to Scrum Deployment• Scrum – Tool for Driving Change in Work Environment• Empowering Quality Assurance• Making Customer Relations Robust• Managing Collaboration in Scrum• Human Factor – Limitations of Scrum Deployment• Scrum Failure Is Never a Failure

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## Reimagining Data Visualization Using Python | New

### *Acharya*

• Introduction to Data Visualization • Types of Digital Data • Reading Data from Varied Data Sources into Python DataFrame • Pros and Cons of Charts • Good Chart Designs • Data Wrangling in Python • Functions in Python Pandas • Matplotlib for Data Visualization • Plotly for Data Visualization • 10 Seaborn for Data Visualization • Cases • Appendix Python Assignments

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## Blockchain for Enterprise Application Developers | IM | e

### *Choudhari*

• Evolution of Blockchain • Blockchain Concepts • Architecting Blockchain Solutions • Ethereum Blockchain Implementation • Hyperledger Blockchain Implementation • Advanced Concepts in Blockchain

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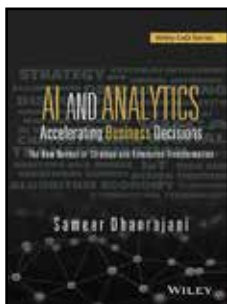
## AI and Analytics: Accelerating Business Decisions (Exclusively distributed by Pan Macmillan) | e

### Dhanrajani

Section 1 AI and Analytics Strategy for Business Transformation Section 2 The CxO Strategies for AI and Analytics Section 3 Banking Industry Transformed by AI and Analytics Section 4 AI and Analytics in Insurance Section 5 Redefining Healthcare and Life Sciences Section 6 AI and Analytics in Retail Section 7 Exponential Technologies Underpinned by Analytics and AI
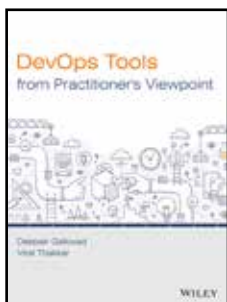
**9788126573035**

## Artificial Intelligence: Concepts and Applications | IM | e

### Goel

• Foundations of Artificial Intelligence • Basics of Machine Learning • Applications of Artificial Intelligence • Logic in Artificial Intelligence • Trends in Machine Learning
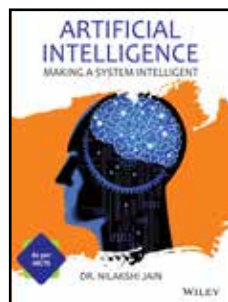
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## Big Data Analytics Using Artificial Intelligence Technologies | New | e

### Dixit

• Introduction of Big Data in Organizations: The Changing Perspectives • Basics of Big Data• Big Data Tools & Technologies• Big Data Architecture• Big Data for Data Driven Decisions: Applications• People Component of BDA• Big Data: Privacy, Security and Ethical Concerns• Converging Technologies: Exploring New Dimensions• Introduction to MongoDB• Big Data Analytics with Hadoop• Jasper Report Using Jaspersoft

**9789391029685** | ₹ 525

## Python for Data Science | IM | e

### Hameed

• Python Data Types, Values, and Identifiers• Statements, Expressions, and Operators• Python's Flow Control Tools• Functions in Python• Python Modules• Python Classes and Objects• Files and Input/Output• Errors and Exceptions• Pandas• Data Visualization with Seaborn• Introduction to Machine Learning

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## DevOps Tools from Practitioner's Viewpoint | e

### Gaikwad

• The World without DevOps, Really?• Agile Methodology and DevOps• Map My App to DevOps Journey• Tool Suits• Orchestration• Application Lifecycle Management• Source Code Management and Quality• Deployment and Infrastructure Management• DevOps with Cloud• Application Security• DevOps Governance and Controls• Adopting DevOps• DevOps Best Practices• DevOps Emerging Trends

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## Artificial Intelligence: Making a System Intelligent | IM | e

### Jain

• Introduction to Artificial Intelligence• Intelligent Agents• Problem Solving• Uninformed Search Strategies• Informed Search• Adversarial Search• Constraint Satisfaction Problem• Knowledge and Reasoning• Predicate Logic• Representation Knowledge Using Rules• Planning and Learning• Uncertain Knowledge and Reasoning• Natural Language Processing• Expert System• Application• Cognitive Computing• Introduction to Soft Computing and Fuzzy Logic• Artificial Neural Network

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### Clearing The Digital Blur : How Organizations Can Transform Themselves At the Speed of Digital | BS | e | k

*Jayaraman*

What do Google, Amazon, Facebook and Alibaba have in common? Collectively referred to as "GAFA", these companies represent a new breed of competitors who are disrupting one industry after another using a playbook that most incumbent companies fail to understand.

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### User Expectations / Experience The Great Balancing Act | e

*Krishnaraj*

• Introduction: • Why Should Design Lead Engineering? • From Ramen Noodles to the Enterprise: • Five Best Practices to Applying Design-Led Engineering • The First Step to Business Transformation: • Journeying with your User • Stocking Up Your Toolbox: • UX Techniques • Leveraging Prototyping: • To Fail Fast and Succeed Faster • In Practice: • Letting Design Lead the Way

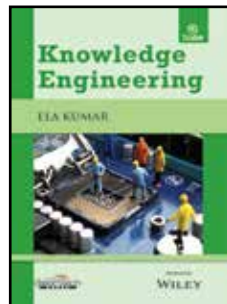**9788126578184** | ₹ **1295**
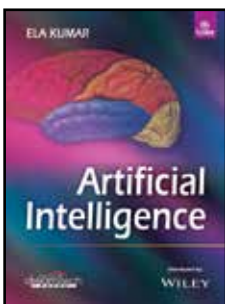
### Artificial Intelligence | e

*Kumar*

• Problem Solving through AI• Heuristic Search • Introduction to Knowledge• Logic • Advanced Knowledge Representation • Programming Languages• Reasoning with Uncertainty • Natural Language Processing• Machine Learning, Planning and Understanding • Applications of AI• Expert Systems
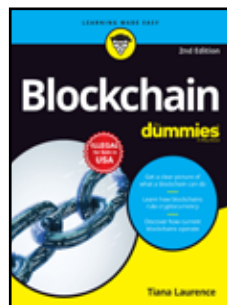
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### Knowledge Engineering | e

*Kumar*

• Concept of Knowledge • Knowledge Acquisition • Knowledge Representation• Knowledge Manipulation• Knowledge Management • Knowledge Based system Design

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### Blockchain for Dummies, 2ed | e

*Laurence*

• Getting Started with Blockchain • Developing Your Knowledge • Powerful Blockchain Platforms • Industry Impacts • The Part of Tens

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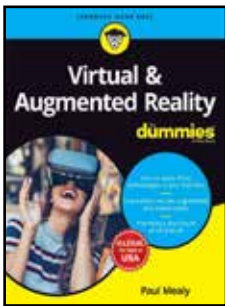### Introduction to Data Science: : Practical Approach with R and Python | New | IM | BS | e

*Maheswari*

Introduction to Data Science: Practical Approach with R and Python covers all the fundamental concepts of Data Science in a concise manner.

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## Virtual & Augmented Reality for Dummies | e

### *Mealy*

For such a large-scale technology revolution that is about to happen in the VR/AR space, there are very few books that address Virtual Reality outside of programing language specific "How to program VR applications."

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## Cloud and Distributed Computing : Algorithms and Systems | IM | e

### *Misra*

• Introduction to Cloud, Virtualization, and Virtual Machine• Network Virtualization and Geo-Distributed Clouds • Leader Election in Cloud, Distributed Systems, and Industry Systems • Classical Distributed Algorithms and the Industry Systems• Consensus, Paxos, and Recovery in Clouds • Cloud Storage: Key-Value Stores/NoSQL Stores and HBase • P2P Systems and Their Applications in Industry Systems • Cloud Applications: MapReduce, Spark, and Apache Kafka • Cloud-Native Computing • Software-Defined Networking and Network Function Virtualization

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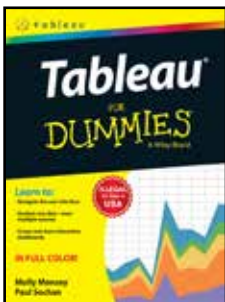
## Tableau For Dummies | BS | e

### *Monsey*

• Getting Started with Tableau Desktop • Bringing in Data • Analyzing Data • Publishing and Sharing • Advancing to a Higher Level • The Part of Tens
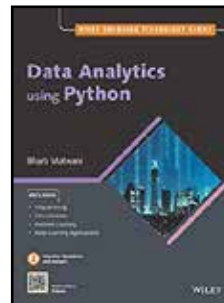
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### *Motwani*

• HR Data Exploration, Extraction, and Visualization • HR Analytics Using Basic Statistical Techniques • HR Analytics Using Unsupervised Machine Learning • HR Analytics Using Supervised Machine Learning • HR Analytics for Text and Image Data

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## Data Analytics using Python | IM | BS | e

### *Motwani*

• Programming in Python• Core Libraries in Python• Machine Learning in Python• Deep Learning Applications in Python
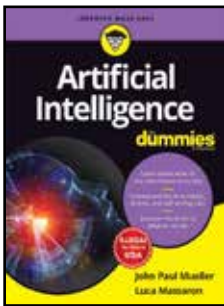
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## Data Analytics with R | IM | BS | e

### *Motwani*

Data analysis is the method of examining, cleansing, and modeling with the objective of determining useful information for effective decision-making and operations.
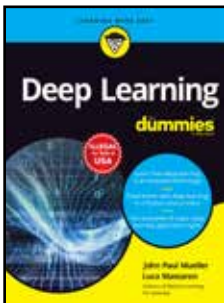
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### Artificial Intelligence for Dummies | e

*Mueller*

The term "Artificial Intelligence" has been around since the 1950s, but a lot has changed since then. Today, AI is referenced in the news, books, movies, and tv shows, and the exact definition is often misinterpreted.

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### Machine Learning using Python | IM | BS | e

*Pradhan*

•Introduction To Machine Learning•Descriptive Analytics•Probability Distributions And Hypothesis Tests•Linear Regression•Classification Problems•Advanced Machine Learning•Clustering•Forecasting•Recommender Systems•Text Analytics

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### Deep Learning for Dummies | e

*Mueller*

• Discovering Deep Learning • Considering Deep Learning Basics • Interacting with Deep Learning • The Part of Tens

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### Neoskilling for Digital Transformation | e

*Prasad*

• The Need for Neoskilling – Beyond Reskilling • Ownership – The Buck Stops Here • The Hierarchy of Reskilling • Socially Inclusive Reskilling – Digital for All • Industry Analysis • Conclusion – Making It Happen
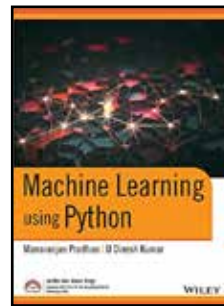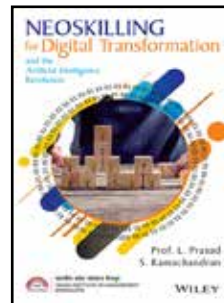
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### Python for Data Science for Dummies, 2ed | e

*Mueller*

• Getting Started With Data Science and Python • Getting Your Hands Dirty With Data • Visualizing Information • Wrangling Data • Learning From Data • The Part of Tens

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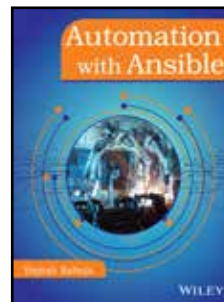
### Automation with Ansible | e

*Raheja*

• Introduction to Configuration Management with Ansible• Understanding of Ansible Framework • Ansible Deployment • Ad-Hoc Execution with Ansible • Ansible Playbooks • Variables in Ansible • Conditionals, Loops and Handlers • Ansible Roles • Ansible Vault • Ansible Galaxy • Ansible Playbook Optimization • Ansible Tower

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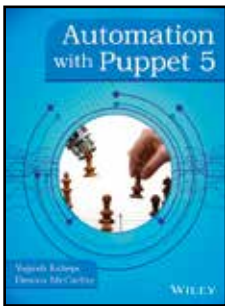
### Automation with Puppet 5 | e

*Raheja*

• Defining IT Automation • Introduction to Puppet• Understanding Puppet Framework• Puppet Deployment• Puppet Resources• Puppet Classes and Manifests• Puppet Variables• Puppet Modules • Puppet Nested Classes • Puppet Roles and Profiles • Data Separation in Puppet• Extended Puppet Concepts• Puppet Forge

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### Core Python Programming : Covers fundamentals to advanced topics like OOPS, Exceptions, Data structures, Files, Threads, Net, 3ed | BS

*Rao*

• Introduction to Python • Writing Our First Python Program • Datatypes in Python • Operators in Python • Input and Output • Control Statements • Arrays in Python • Strings and Characters • Functions • Lists and Tuples • Dictionaries • Introduction to Oops • Classes and Objects • Inheritance and Polymorphism • Abstract Classes and Interfaces • Exceptions • Files in Python • Regular Expressions in Python • Data Structures in Python • Date and Time • Threads • Graphical User Interface • Networking in Python • Python's Database Connectivity • Data Science Using Python • PyCharm and Jupyter • Program Index

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### Machine Learning Using R | New | IM | e

*Rahul*

• Machine Learning and R• Data Preprocessing• Data Visualization• Probability and Distributions• Supervised Learning Algorithm: Linear Regression• Classification Problems• Advanced Machine Learning• Ensemble Methods• Text Analytics
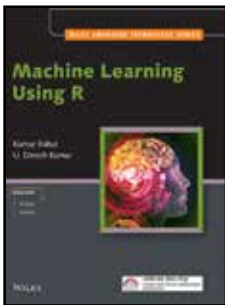
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### Machine Learning in Data Science Using Python | New

*Rao*

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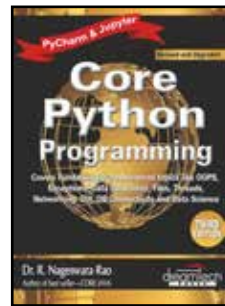### Full Stack Java Development with Spring MVC, Hibernate, jQuery, and Bootstrap | BS | e

*Ramgir*

Full Stack Java Development is a great way to start one's journey to becoming a full stack developer. Any student will find this book very helpful to learn about the essential technologies and ecosystem of web application development.

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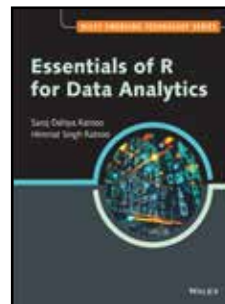
### Essentials of R for Data Analytics | IM | e

*Ratnoo*

• Introduction to HR Analytics • Getting Help in R • Vectors and Factors in R • Matrices in R • Lists and Data Frames in R • Strings and Dates in R • Input Output in R • Conditional Statements and Loops in R • Writing Functions in R • An Introduction to Graphics in R • Making Graphs and Charts in R • Graphics using ggplot2 • Data Transformations in R • Predictive Analytics: Classification in R • Predictive Analytics: Regression in R

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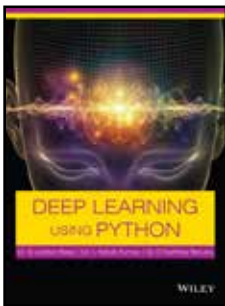
## Deep Learning Using Python  | IM | e

*Rose*

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*Saurabh*

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*Sharma*

• Getting Started with TensorFlow JS and ML Web Apps • Creating a Web App to Perform Sentiment Analysis • Building a Self-Learning 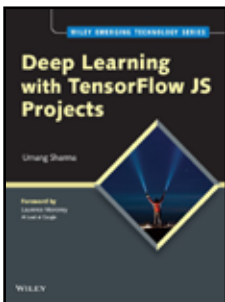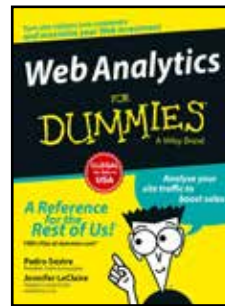Web App to Perform Addition Using RNNs and GRU • Creating the Web App for Text Generation Using LSTM • Building Webcam-Based PacMan Game on Your Browser Using MobileNet • Building Real-Time Pose and Body Parts Detector Using PoseNet • Getting Invisible and Adding Cool Features to Images Using BodyPix • Building a Synthetic Images Generator Using GANs • Building an App to Encode, Decode, and Generate Images Using Variational Autoencoder • Building a Solution to Pole-Cart Problem Using Reinforcement Learning • Index

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*Sostre*

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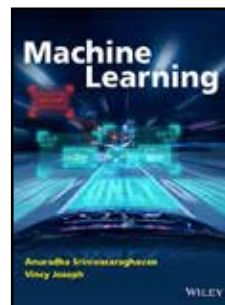
## Machine Learning  | IM | e

*Srinivasaraghavan*

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*Sringeswara*

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7

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### *Vasudevan*

• Introduction to Internet of Things • Introduction to Sensors, Microcontrollers, and Their Interfacing • Protocols for IoT – Messaging and Transport Protocols • Protocols for IoT – Addressing and Identification • Cloud for IoT • Data Analytics – Visualising the Power of Data from IoT • Application Building with IoT • Annexure A1 Getting Familiarized with Arduino IDE • Annexure A2 Getting Familiarized with Raspberry Pi • Annexure B Analysis and Study of IoT Security: Case Study Examples • Annexure C Sensors and Applications – A Quick Summary • Annexure D Interview Questions and Answers • Annexure E Objective Type Questions and Answers • Index

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## Internet of Things, An Indian Adaptation | e

### *Wiley Editorial*

• Introduction to Internet of Things • Internet of Things Architecture • IoT Reference Layers and Protocol Stacks • IoT Enabling Platforms • Security and Privacy in IoT • Computing Tools • 5G an IoT Enabler • Applications and Case Study

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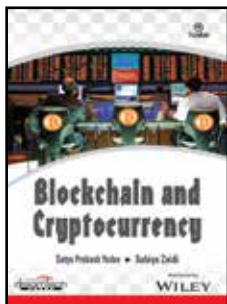
## Blockchain and Cryptocurrency

### *Yadav*

• Basics• Cryptography • Blockchain• Distributed Consensus • Cryptocurrency• Cryptocurrency Regulation• Blockchain Applications

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