

Jeeva Jose

Introduction to Machine Learning Using Python

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Product Description

Salient features of this book: AICTE recommended book for Indian Universities and Autonomous colleges.

- This book can be used as a self study material or for instructor assisted teaching.
- Frequent questions for interviews and examinations are provided.

Topics Covered in this Book

Chapter 1. Introduction to Machine Learning

Chapter 2. Regression

Chapter 3. Classification

Chapter 4. Cluster Analysis

Chapter 5. Advanced Multivariate Analysis

Chapter 6. Semi-supervised, Reinforcement & Active Learning

Chapter 7. Deep Learning

Chapter 8. Introduction to TensorFlow

Chapter 9. Regression using TensorFlow

Chapter 10. Artificial Neural Networks using TensorFlow

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Author

Jeeva Jose

Dr. Jeeva Jose completed Ph. D. in Computer Science from Mahatma Gandhi University, Kerala, India and is a faculty member at BPC College, Kerala. Her passion is teaching and areas of interests include world wide web, Data Mining and Cyber laws. She has been in higher education for the last 15 years and has completed three research projects funded by UGC and KSCSTE. She has published more than twenty research papers in various refereed journals and conference proceedings. She has edited three books and has given many invited talks in various conferences. She is a recipient of ACM-W Scholarship provided by Association for Computing Machinery, New York.

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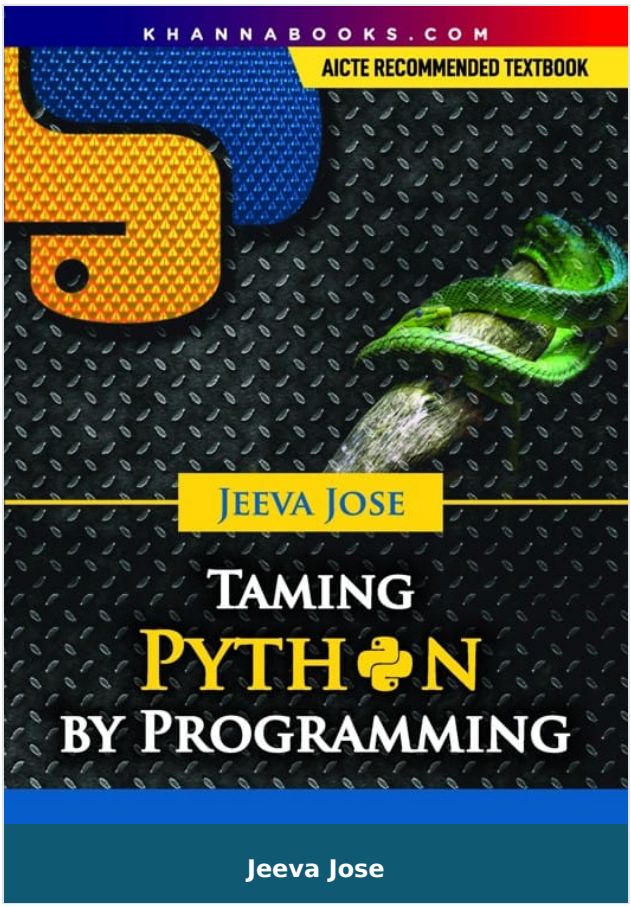

Taming PYTHON By Programming

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Product Description

This is a great book for Python Beginner and Advanced Learner which covers Basics to Advanced Python Programming where each topic is explained with the help of Illustrations and Examples. More than 450 solved programs of this book are tested in Python 3.4.3 for windows. The range of Python Topics covered makes this book unique which can be used as a self study material or for instructor assisted teaching. This books covers Python Syllabus of all major national and international universities. Also it includes frequently asked questions for interviews and examination which are provided at the end of each chapter.

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- Multithreading
- CGI Programming
- Socket Programming
- Index

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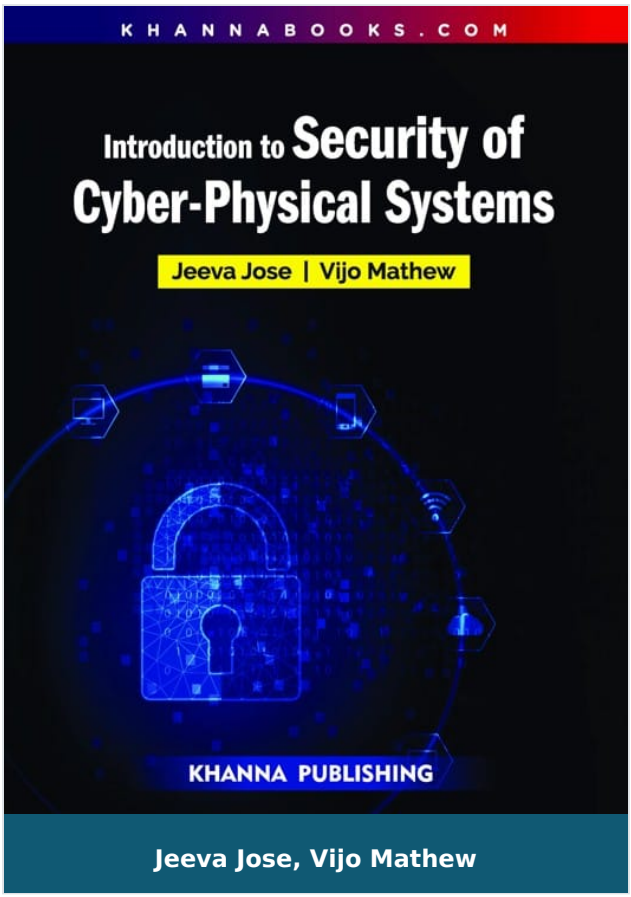

Introduction to Security of Cyber-Physical Systems

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Product Description

Salient Features of this book:-

1. Covers Complete AICTE syllabus of Security of Cyber Physical Systems (IOT-O2) miner change degree course .

2. The basic of security and various types of security issues are explained

3. Different cryptography techniques and various security attacks are discussed.

4. Network security and how they are implemented in real world is demonstrated.

5. Insight to various issues of web security and biometric authentication provided.

6. Each chapter is provided with objective questions with answers and review questions.

7. The full form and explanation of the abbreviations used are given in each chapter.

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Vijo Mathew

Vijo Mathew is a highly accomplished engineer with three decades of experience in driving innovation and growth in various electrical, electronics, and information technology industries. His track record is complemented by a postgraduate degree in management, equipping him to excel in business management, strategic management, and technology management. His expertise is highly valued in the fields of software, electrical and electronics hardware, and design where he provides strategic guidance and mentorship to organizations seeking to stay ahead of the curve. He has demonstrated a unique ability to bridge the gap between technology and business driving success through his visionary approach and collaborative leadership style. His leadership skills and technical acumen have made him an advisor to some reputed national and

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international corporations. As an advisor and strategic leader, he is helping organizations achieve their full potential through innovative solutions, effective management, and visionary leadership. He is also author of many books related to technology and management.

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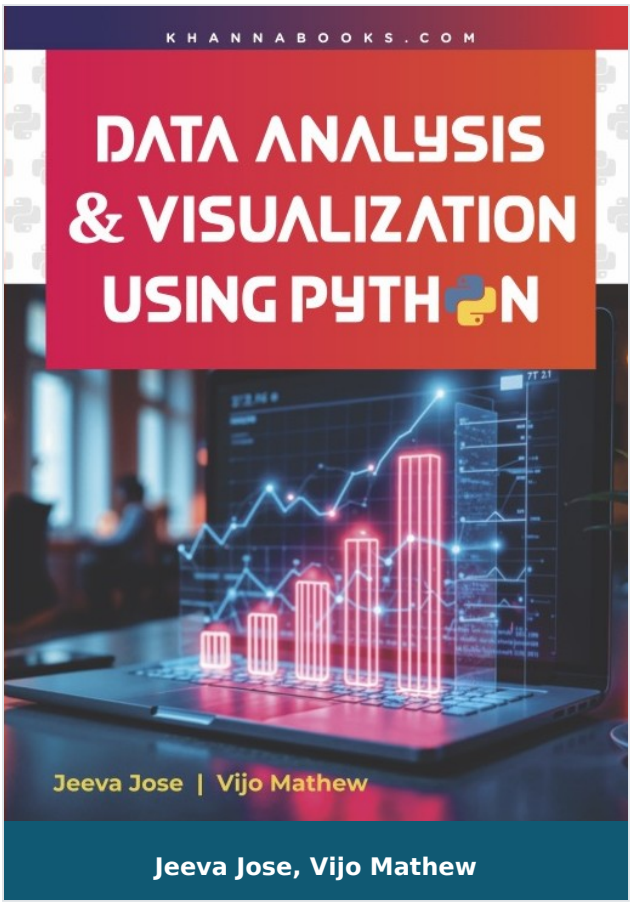

Data Analysis & Visualization Using Python

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Product Description

In The age of data - driven decision-making, the ability to analyze, interpret and visualize data has become an essential skill across disciplines. Whether in Academia, Business, healthcare, or engineering, data analysis enables us to uncover patterns, test hypotheses, and drive actionable insights. this book is designed to guide readers through the statistical data analysis and implementation of charts using python programming for visualization.

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- parametric Tests
- Non-Parametric Tests
- Anova and Regression

Author

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Vijo Mathew

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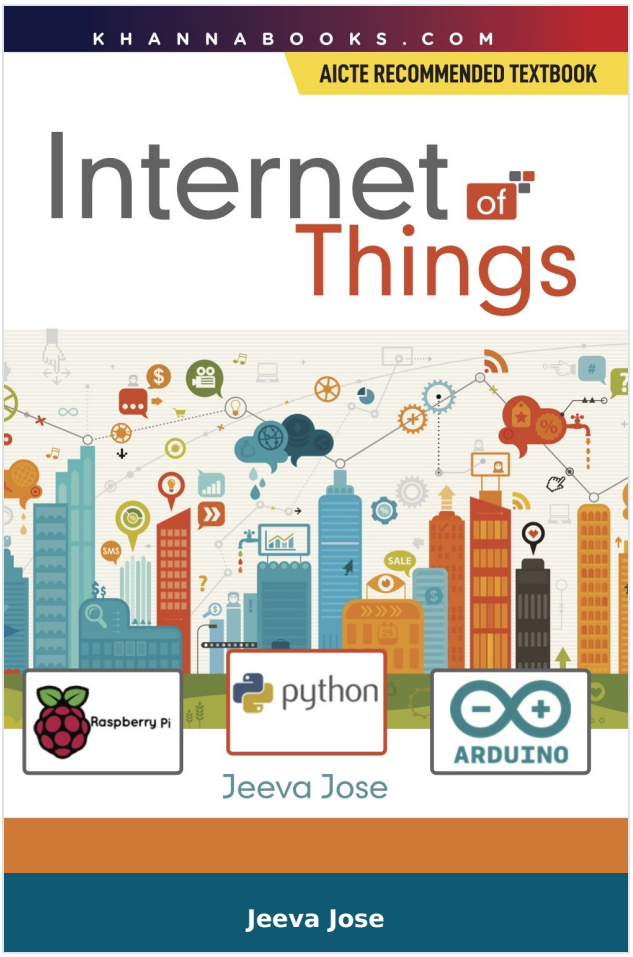

Internet of Things

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Product Description

Internet of Things (IoT) is a network comprising of machines, vehicles, home appliances, computers, micro controllers, sensors and actuators supported by application software and protocols. The study of IoT is the detailed understanding of these components. As per the estimates, by 2020 the connected things in IoT network will outnumber human beings in earth. Practical applications of IoT Technology is in every area like agriculture, construction management, health care, energy, transportation, education etc. The opportunity in business and job for IoT is increasing day by day.

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- Chapter-14: Smart Grids
- Chapter-15: Smart Cities
- Chapter-16: Connected vehicles
- Chapter-17: Industrial IoT

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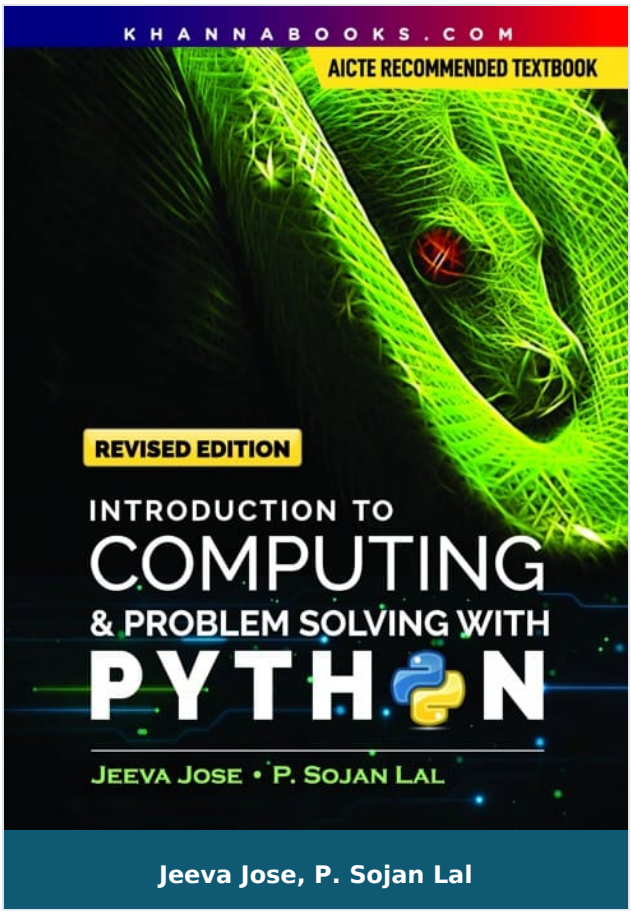

Jeeva Jose, P. Sojan Lal

Introduction to Computing & Problem Solving with PYTHON

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Product Description

This book 'Introduction to Computing and Problem Solving with Python' will help every student, teacher and researcher to understand the computing basics and advanced Python Programming language.

The Python programming topics include the reserved keywords, identifiers, variables, operators, data types and their operations, flow control techniques which include decision making and looping, modules, files and exception handling techniques. Advanced topics like Python regular expressions, Database Programming and Object Oriented Programming concepts are also covered in detail. All chapters have worked out programs, illustrations, review and frequently asked interview questions. The simple style of presentation makes this a friend for self-learners. More than 300 solved lab exercises available in this book is tested in Python 3.4.3 version for Windows.

The book covers syllabus for more than 35 International Universities and45 Indian universities like Dr. APJ Abdul Kalam Technological University, Christ University, Savitribai Phule Pune University, University of Delhi, University of Calicut, Mahatma Gandhi University, University of Mumbai, AICTE, CBSE, MIT, University of Virginia, University of Chicago, University of Toronto, Technical University of Denmark etc.

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P. Sojan Lal was awarded PH. D. from Cochin University of Science and technology, kerala, India. He is Professor, department of computer science and engineering, MBITS, kerala, India and Research supervisor for PH. D. programs of University of petroleum & Energy Studies, Dehardun, India as well as school of computer science, Mahatma Gandhi University, kerala, India. He has 29 Years of academic and industrial experience with 60 publications inclusive of two technical books. His joint publications are recorded with world records India (2014) for most number of papers in several international technical journals within short duration. He has also obtained MBA from starthclyde Business School, Scotland, UK and is a fellow of the Institution of engineers (FIE-India). He was the district Operationg Board member for ASME, Middle east and Africa region. He is a member of ISTE, ASME, IEEE, CSI and engineering Council (UK). He is listed in marquis who's who in the world since 2009 as the biographical reference representing the world's most accomplished individuals.

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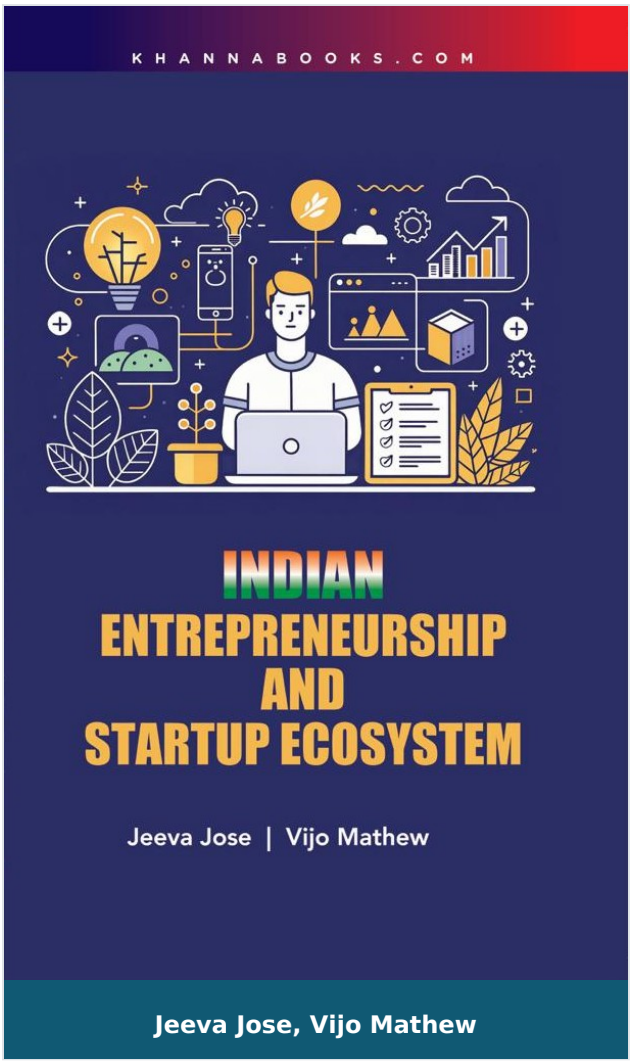

INDIAN ENTREPRENEURSHIP AND STARTUP ECOSYSTEM

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Product Description

INDIAN ENTREPRENEURSHIP AND STARTUP AND ECOSYSTEM

This book explains the journey of business from ideas and growing to a venture. The book connects creative ideas with real market opportunities. It teaches readers how to estimate business potential, test feasibility and run lean operations; the book explains how to build a team from scratch. It shows how to use low-cost digital marketing to reach customers. It also helps readers understand funding options and the Indian start-up ecosystem, including benefits under startup India and other government schemes, the book compares modern start-ups with traditional family businesses. It highlights lessons from well-known Indian companies and helps students to learn how legacy businesses differ from new ventures. Overall, this book provides clear guidance on legal, financial and operational aspects to build a strong and scalable enterprise in today’s competitive world.

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- Startup Ecosystem
- Startup India
- Digital India
- MSME

Author

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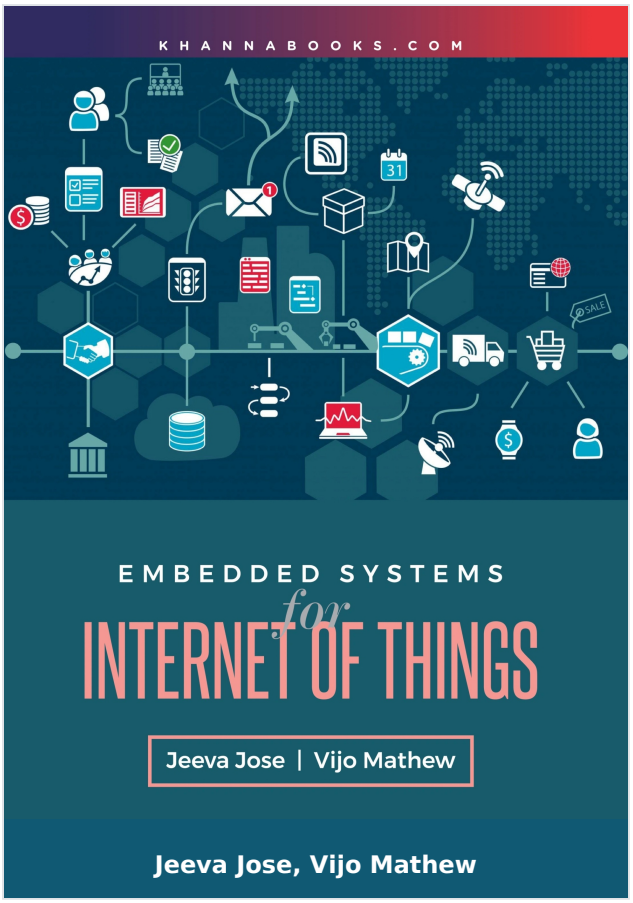

Embedded Systems for Internet of Things

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Product Description

Salient Features of The Book

1. Covers complete AICTE syllabus of IoT-04 minor degree course-Embedded systems for IoT.

2. Each Chapter is provided with objective questions with answers and review questions

3. The full form of the explanation of the abbreviations used are given in each chapter.

4. Meets the requirements of India's National Education Policy 2020 (NEP 2020).

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- Embedded System Design.
- Inputs and Outputs.
- Embedded System Platforms & IDE.
- IoT Sensing Layer Protocols.
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Author

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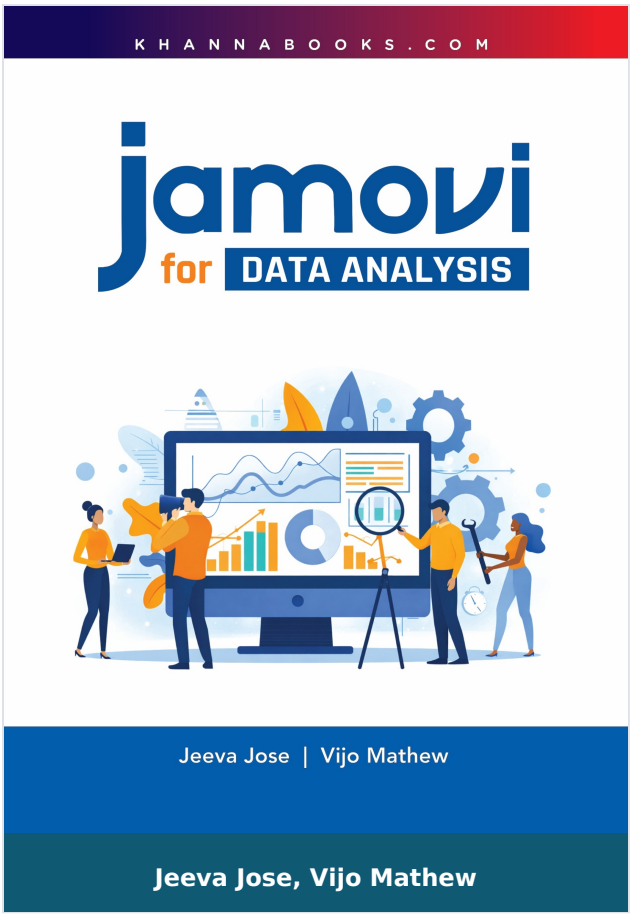

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Product Description

Jamovi for Data Analysis In today's data-driven world, the ability to analyze information accurately is an essential skill across education, research, and industry. However, many traditional statistical tools are either prohibitively expensive or too complex for beginners to master. Jamovi for Data Analysis introduces readers to a powerful, free, and open- source alternative built on the R programming language. By providing a user-friendly point-and-click interface, Jamovi allows users to focus on understanding their data rather than struggling with complex coding or intimidating software environments. This book is specifically designed to build confidence in statistical analysis, guiding readers from the initial installation and interface navigation through to sophisticated data handling and hypothesis testing. The content is presented in a clear, step-by-step manner, enriched with examples that reflect real-world scenarios. Whether you are a student beginning your journey in statistics, a teacher looking for modern pedagogical tools, or a researcher needing a reliable and transparent platform for analysis, this book serves as an indispensable companion. It bridges the gap between theoretical concepts and practical application, making data exploration, visualization, and advanced modeling accessible to all.

Salient Features

- **Comprehensive Tool Introduction**: Learn to navigate Jamovi's modular architecture, including its intuitive Data View, Variable Panel, and Analyses Panel for seamless statistical workflows.
- **Structured Learning Path**: Follow a pedagogical journey from basic data types and measures of central tendency to complex regression models and ANOVA.
- **Practical Implementation Focus**: Master data entry and cleaning by importing various formats like Excel, CSV, and SPSS, or by manually defining variables and

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types.

- **Visual Data Exploration**: Utilize built-in visualization tools to generate professional histograms, box plots, scatter plots, and bar charts that reveal underlying data patterns.
- **Parametric & Non-Parametric Testing**: Conduct a wide range of essential tests, including t-tests, Chi-square, and Wilcoxon signed-rank tests, with guidance on choosing the right method.
- **Advanced Modeling Techniques**: Explore sophisticated analytical methods such as simple and multiple linear regression, logistic regression, and structural equation modeling (SEM).
- **Real-Time Collaborative Reporting**: Benefit from Jamovi's unique "live results" system where outputs are displayed instantly and can be easily exported to PDF or Word.
- **Assessment and Reinforcement**: Each chapter includes Multiple Choice Questions and Short Answer Questions to test understanding and reinforce key statistical concepts.

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- Introduction to Jamovi
- Data Types
- Measures of Central Tendency & Dispersion
- Descriptive Statistics with Jamovi
- Correlation and Regression
- Non-Parametric Test & ANOVE
- Data Analysis Using Jamovi

Author

Jeeva Jose

Dr. Jeeva Jose completed Ph. D. in Computer Science from Mahatma Gandhi University, Kerala, India and is a faculty member at BPC College, Kerala. Her passion is teaching and areas of interests include world wide web, Data Mining and Cyber laws. She has been in higher education for the last 15 years and has completed three research projects funded by UGC and KSCSTE. She has published more than twenty research papers in various refereed journals and conference proceedings. She has edited three books and has given many invited talks in various conferences. She is a recipient of ACM-W Scholarship provided by Association for Computing Machinery, New York.

Vijo Mathew

Vijo Mathew is a highly accomplished engineer with three decades of experience in driving innovation and growth in various electrical, electronics, and information technology industries. His track record is complemented by a postgraduate degree in management, equipping him to excel in business management, strategic management,

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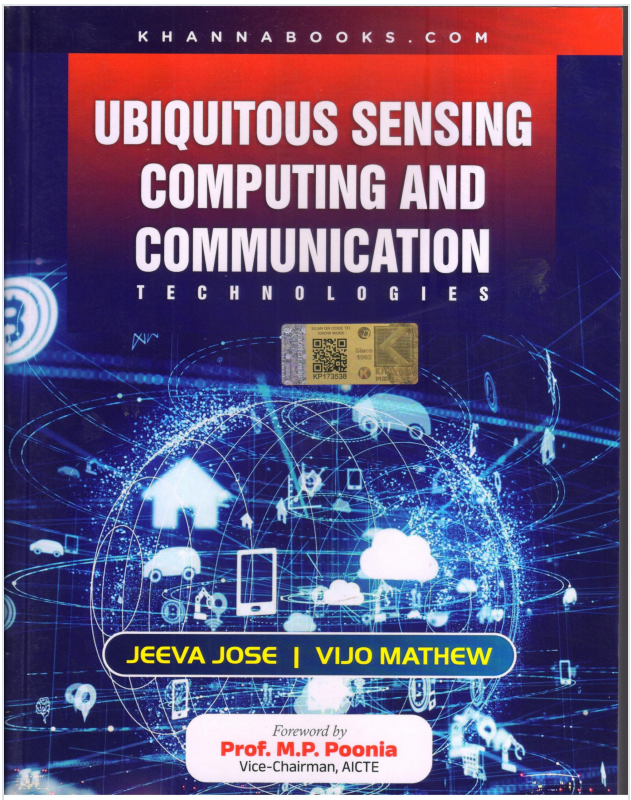

Jeeva Jose, Vijo Mathew

Ubiquitous Sensing Computing and Communication Technologies

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Product Description

Salient Features of the Books:

*Covers Complete AICTE syllabus of Iot-03 minor degree course- Ubiquitous Sensing, Computing and Communication.

* The Basics of IoT- Mechanical, Electronics and Sensor platforms are explained.

* Different wired and wireless protocols, mobile to Electronics and Enterprise integration are discussed.

* Open Source and Commercial Electronics Platform for IoT demonstrated.

* Details of Open Source and Commercial Enterprise cloud platforms for Io provided.

* Each chapter is provided with objective questions with answers and review questions.

* The full form and explanation of the abbreviations used are given in each chapter.

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- Sensor Web
- Ubiquitous Computing
- Cloud Computing
- Edge, Fog, Mist, Dew Computing
- Wearable Computing
- Affective Computing
- Cognitive Computing
- Context Aware Computing
- Social Network
- IoT Data Analytics and Management
- Internet and Deep Web
- Search Techniques and Search Engines.

Author

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Dr. Jeeva Jose completed Ph. D. in Computer Science from Mahatma Gandhi University, Kerala, India and is a faculty member at BPC College, Kerala. Her passion is teaching and

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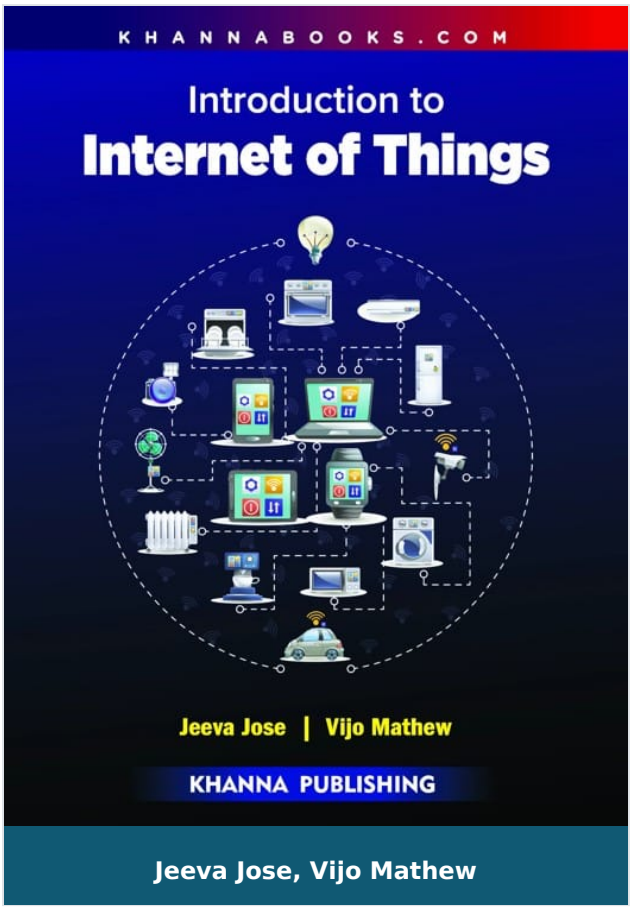

Jeeva Jose, Vijo Mathew

Introduction to Internet of Things

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Product Description

Salient Features of this book:-

1. Covers Complete AICTE syllabus of Internet of Things (IOT-O1) miner change degree course .

2. Provides introduction to IOT in a simple method.

3. Best self- study material and reference guide.

4. Explains the technologies & standards related to IOT.

5. IOT Ecosystem is discussed in detail.

6. Will help to develop skills in IOT technical planning.

7. Each chapter is provided with objective questions with answers and review questions.

8. The full form and explanation of the abbreviations used are given in each chapter.

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Author

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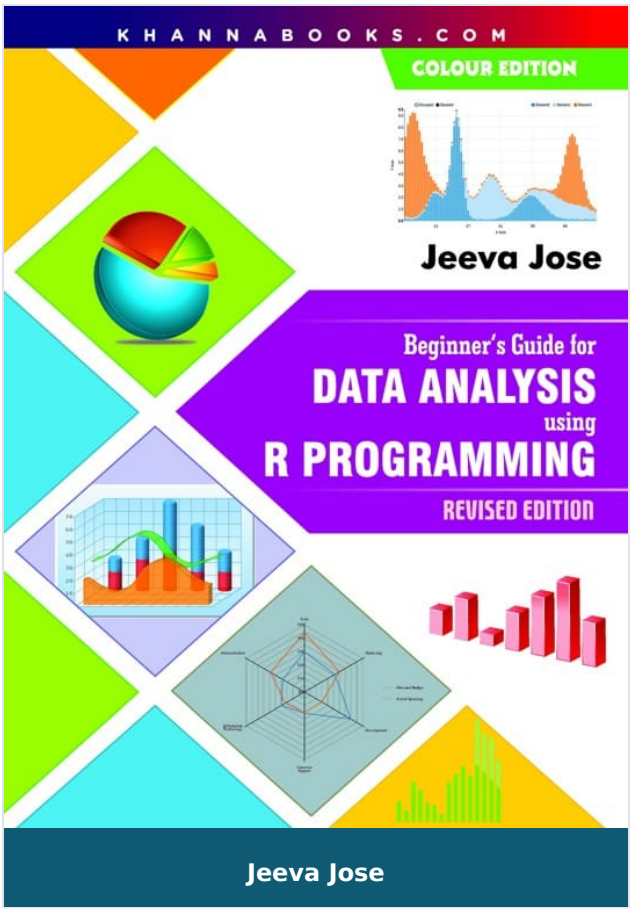

Beginner's Guide for Data Analysis using R Programming

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Product Description

R programming is an efficient tool for statistical analysis of data. Data science has become critical to each field and the popularity of R is skyrocketing. Organization as large and diverse as Google, Facebook, Microsoft, Bank of America, Ford Motor Company, Mozilla, Thomas Cook, The New York Times, The National Weather Service, Twitter, ANZ Bank, Uber, Airbnb etc. have turned to R for reporting, analyzing and visualization of data, this book is for students and professionals of Mathematics, Statistics, Physics, Chemistry, Biology, Social Science and Medicine, Business, Engineering, Software, Information Technology, Sales, Bio Informatics, Pharmacy and any one, where data needs to be analyzed and represented graphically.

Salient features of the book:

1. Explains R concept in a simple method.

2. Best self-study material and reference guide.

3. Teaches how to apply various statistical methods to data science.

4. Help statistician and professional to leverage strength by combining their domain expertise with data analysis capability of R.

5. More than 300 solved and tested program provided.

6. A comprehensive book covering all areas of R in detail.

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- Elementary Statistics
- Tests of Hypotheses
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- Basic Multivariate & Analysis
- Advanced Multivariate Analysis
- Advanced Graphs

Author

Jeeva Jose

Dr. Jeeva Jose completed Ph. D. in Computer Science from Mahatma Gandhi University, Kerala, India and is a faculty member at BPC College, Kerala. Her passion is teaching and areas of interests include world wide web, Data Mining and Cyber laws. She has been in higher education for the last 15 years and has completed three research projects funded by UGC and KSCSTE. She has published more than twenty research papers in various refereed journals and conference proceedings. She has edited three books and has given many invited talks in various conferences. She is a recipient of ACM-W Scholarship provided by Association for Computing Machinery, New York.

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