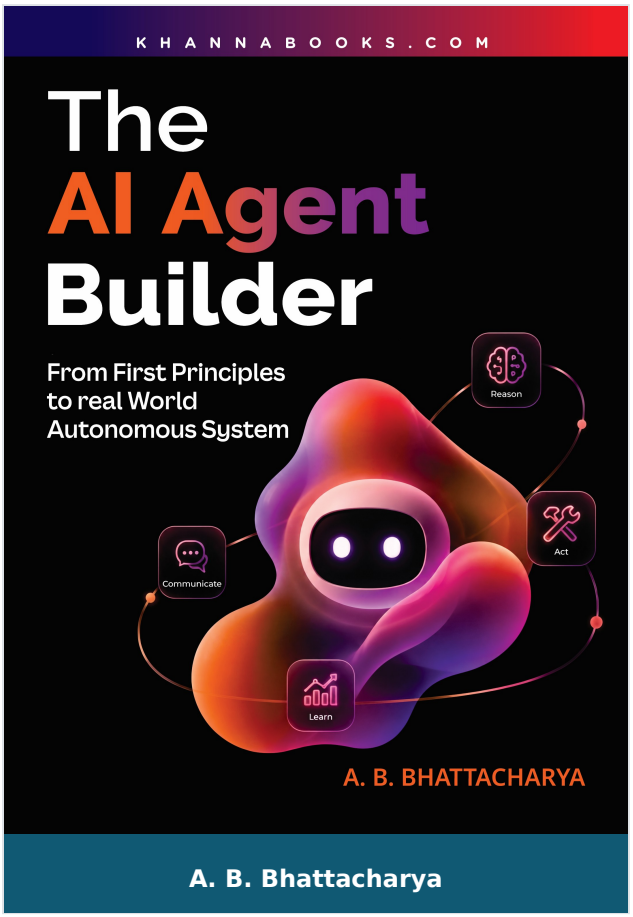


The AI Agent Builder (From First Principles to real World Autonomous System

Author :	A. B. Bhattacharya
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Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

The AI Agent Builder: From First Principles to Real-World Autonomous Systems is a comprehensive guide that introduces the concepts, architecture, development, and deployment of AI agents through a balanced combination of theoretical foundations and practical implementation. Intended for students, researchers, developers, and AI practitioners, the book explains agent architectures, large language models, memory systems, reasoning, planning, tool integration, multi-agent collaboration, safety, evaluation, deployment, and real-world applications.

Salient Features

- **AI Agent Foundations:** Explains the evolution of AI agents, agent architectures, environments, perception, reasoning, action, and large language models through a structured first-principles approach.
- **Practical Agent Development:** Covers memory systems, planning strategies, reasoning techniques, tool integration, autonomous execution, and multi-agent collaboration with exercises and project-based learning.
- **Modern AI Technologies:** Introduces APIs, function calling, external knowledge integration, vector databases, retrieval-augmented generation, and scalable deployment methods for intelligent autonomous systems.
- **Safety and Evaluation:** Explains performance benchmarking, reliability testing, hallucination detection, AI safety principles, prompt injection protection, guardrails, and responsible deployment practices.
- **Real-World Applications:** Demonstrates AI agent implementations for research assistance, customer support, data analysis, productivity, and other practical domains through representative application scenarios.
- **Practice-Oriented Learning:** Reinforces understanding through practical exercises, project ideas, short-answer questions, and multiple-choice questions that

strengthen conceptual and implementation skills.

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Table Of Contents

- Part I: Foundations of AI Agents
- 1- The Rise of AI Agents
- 2- Anatomy of an AI Agent
- 3- The AI Agent Environment
- Part II: Intelligence Behind AI Agents
- 4-Large Language Models as Agent Brains
- 5- Memory Systems for Agents
- 6- Planning and Reasoning
- Part III: Tools and Capabilities
- 7- Tools Use and Function Calling
- 8- Multi-Tools Agents
- 9- Autonomous Task Execution
- Part IV: Multi-Agent Systems
- 10- Collaborative AI Agents
- 11- Specialized Agents
- Part V: Testing, Safety, And Optimization
- 12- Evaluating AI Agents
- 13- Safety and Alignment
- Part VI: Development and Real-World Applications
- 14- Developing AI Agents
- 15- Real-World Agents Applications

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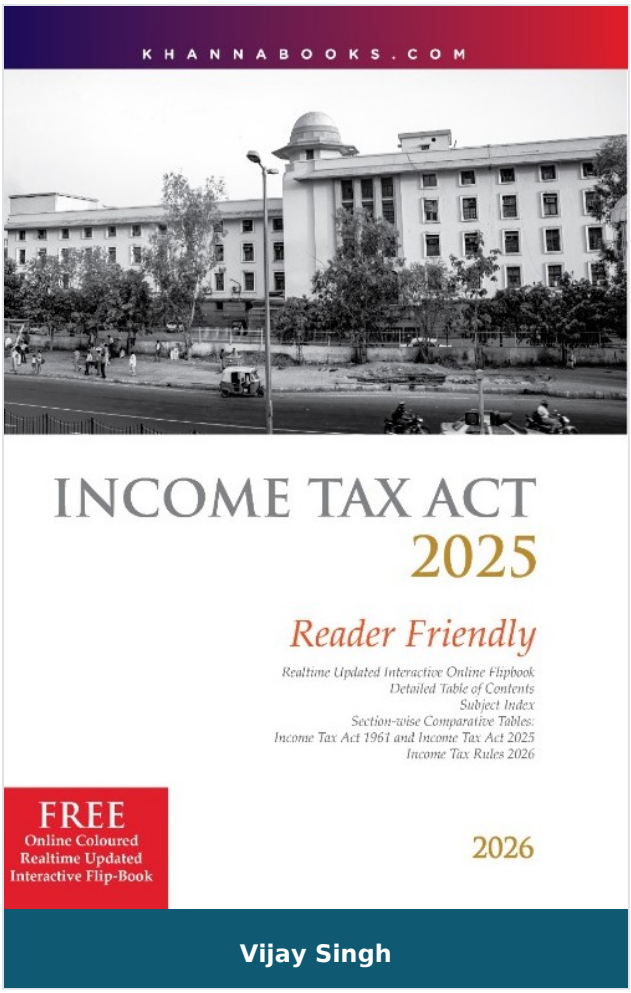
A. B. Bhattacharya

Prof. A. B. Bhattacharya did his MSc and PhD degree from the University of Calcutta in Physics and Post-doc from the Massachusetts Institute of Technology (MIT), Cambridge, USA. He worked in close collaboration with the leading laboratories like Lincoln Laboratory; Milestone Hill Observatory; Earth, Atmospheric and Planetary Sciences division of MIT and many other well recognized laboratories in India and abroad. He served as Professor & Head of the Department of Physics, University of Kalyani; Dean of Research and Head of the ECE Department, Techno India University; Pro Vice Chancellor of JIS University and Director of Brainware University. He has published 32 text books for Science and Engineering students, two popular books for general readers and over 400 research articles in reputed International Journals. Under his supervision 24 scholars received their doctoral degree. He is a fellow of the Institute of Electronics and Telecommunication Engineers and member of many scientific organizations. India International Friendship Society awarded him the prestigious "Shiksha Ratna Award" and Certificate of Excellence for meritorious services, outstanding performance and significant contribution to education. The International Institute of Success Awareness hon0red him with their globally recognized "Glory of India Gold Medal" for his outstanding contribution to the national stature of India. A few words from the certificate issued by Prof. Williams of MIT may be quoted "Our collaborative effort was directed at the wavelength dependence of radar echoes observations with the Millstone Hill UHF radar in Westford. He made use of the Charles River Data System computer in the Weather Radar Laboratory for these calculations. His results help to make a convincing case that the volume reflectivity associated with lighting is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

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Income Tax ACT 2025

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Product Description

The Income Tax 2025 Act notified on the 21st August 2025 has come into force with effect from the 1st April 2026. The present Reader-friendly version of the Income Tax Act 2025 with its online Interactive Flipbook will be of great help to the practitioners as well students of Income Tax in India. The coloured online flipbook provided free with the print book is also mobile responsive. The gazette notification of the Income Tax Act 2025 can be downloaded from the online flipbook. The section-wise coloured comparative tables of the Income Tax Act 1961 and the Income Tax Act 2025; and the Income Tax Rules 2026 notified on the 20th March 2026 are provided in the online flipbook for ready reference.

With a Free On-line Real Time Updated Interactive Flipbook of Income Tax Act 2025 and its PDF.

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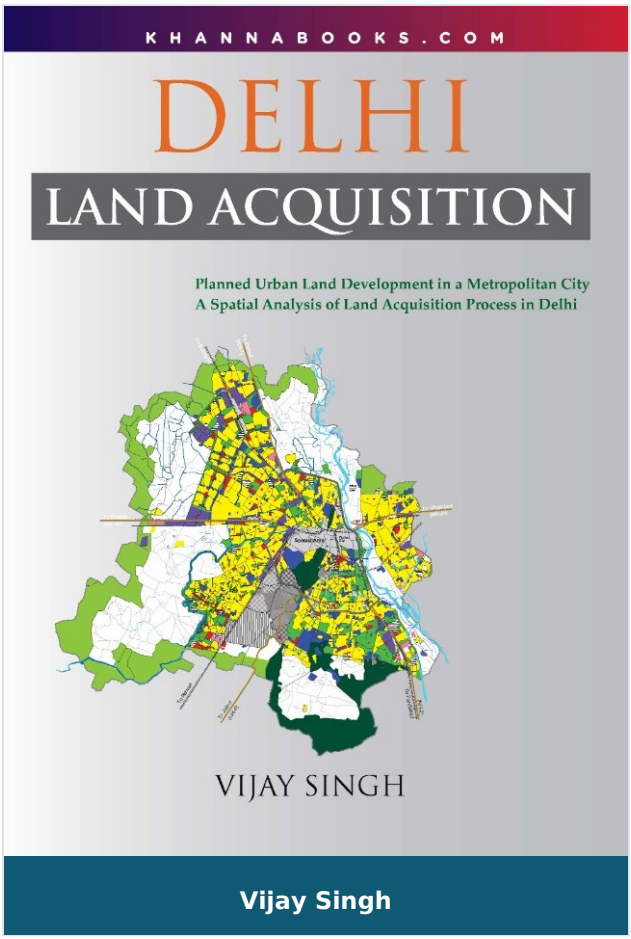
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Vijay Singh

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Vijay Singh

Delhi (Land Acquisition) with CD

Author :	Vijay Singh
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Product Description

The first comprehensive and analytical study of the land acquisition process in Delhi where the urbanization was undertaken by the State acquiring the rural land on a large scale and converting it to urban uses. It is an important contribution in the domain of public policy and its application in the framework of time and space.

Along with Colour E-book and data tables in word document format.

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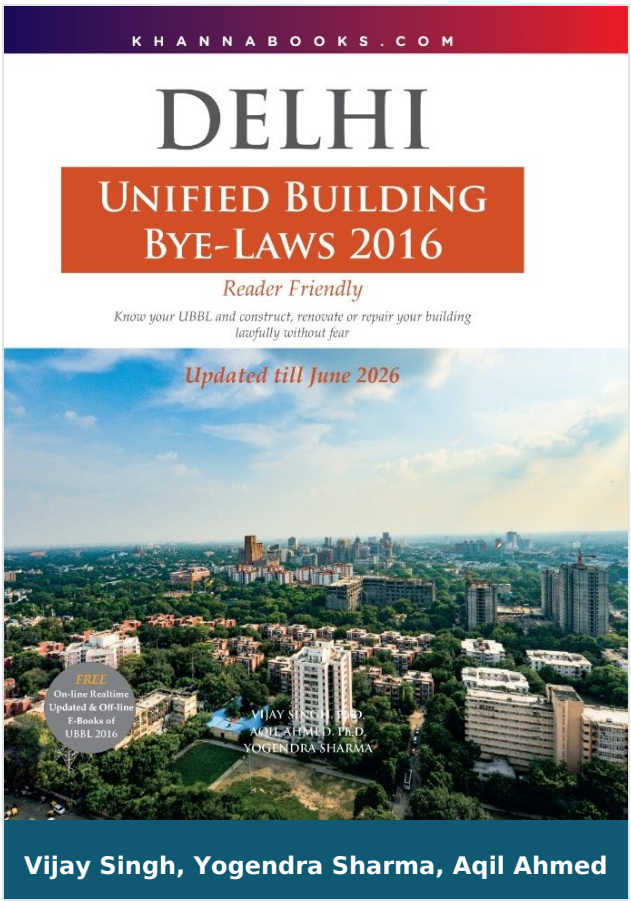
Author

Vijay Singh

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Delhi (Unified Building Bye-Laws 2016 (Colour Edition)

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Product Description

Annexure-1The Building Bye-Laws for Delhi 1983 were revised in 2016 after a long spell of almost 33 years and now updated in 2020. In these years, Delhi’s built landscape has enormously changed. Not only the volume of built-up area has increased, but the types of built-up constituents have also grown ranging from plotted construction to multiple flats; from authorised to unauthorised colonies, from JJ Clusters to built-up slums to name only a few, each one with a different character altogether, posing various kinds of challenges to the objective of developing a planned Delhi.

The understanding of Building Bye-laws which guide the construction, is very important if their compliance is to be a reality in Delhi. Incidentally, in their notified format, the Unified Building Bye-laws for Delhi 2016 are only a document describing a set of rules for buildings in Delhi, most of times, difficult to comprehend their simple meaning and implications by one’s own builders.

For better compliance, it is necessary that these bye-laws are presented in a reader friendly way for their easy understanding by professionals as well as by people who want to build, repair or renovate their houses without any technical knowledge. It is for this purpose, that a reader friendly version of Unified Building Bye-laws 2016 has been designed.

The on-line real time updated e-book of UBBL for Delhi 2016 in the form of a flip book would keep the user updated of all the amendments and notifications on real time basis whereas its off-line version would provide the ease of reading and searching and the PDF version for using it for professional purposes.

The set of print book with its on-line and off-line versions will be a valuable asset for architects, building professionals, building owners, contractors & students.

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Author

Vijay Singh

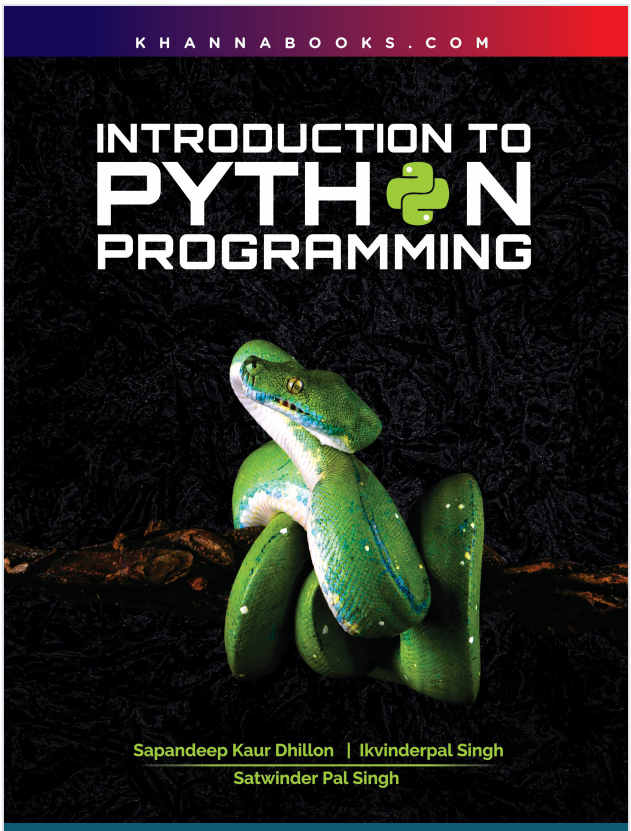
Yogendra Sharma

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Ikvinderpal Singh, Sapandeep Kaur Dhillon, Satwinder Pal Singh

INTRODUCTION TO PYTHON PROGRAMMING

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Product Description

INTRODUCTION TO PYTHON PROGRAMMING Python Programming offers a practical and comprehensive introduction to Python, covering core programming concepts, data structures, functions, modules, exception handling, file handling, and object-oriented programming. The book also introduces NumPy and Pandas for numerical computing and data analysis. With clear explanations, solved examples, programming exercises, and real-world applications, it is an ideal resource for undergraduate and postgraduate students, beginners, and self-learners. **Salient Feature**

- Student-friendly and easy-to-understand approach.
- Covers Python fundamentals to intermediate concepts.
- Solved examples, practical programs, and exercises.
- Algorithms and programming logic explained step by step.
- Includes NumPy and Pandas for data analysis.

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Author

Ikvinderpal Singh

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Sapandeep Kaur Dhillon

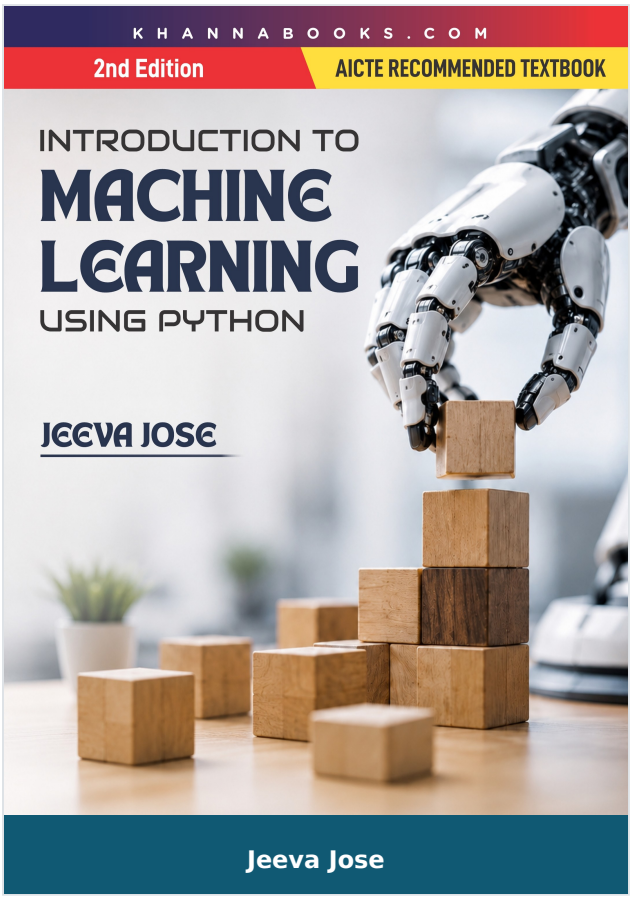
Sapandeep Kaur Dhillon is an assistant professor in the department of computer science, Guru Nanak Dev University, Amritsar, bringing 12+ years of dedicated academic experience to the discipline. She has authored 4 books, published 10+ research papers across national and international journals, reflecting her steady engagement with emerging trends in computing. Her academic interests span data structures, Compiler Design, and Artificial Intelligence, where she integrates foundational theory with practical, algorithmic thinking.

Satwinder Pal Singh

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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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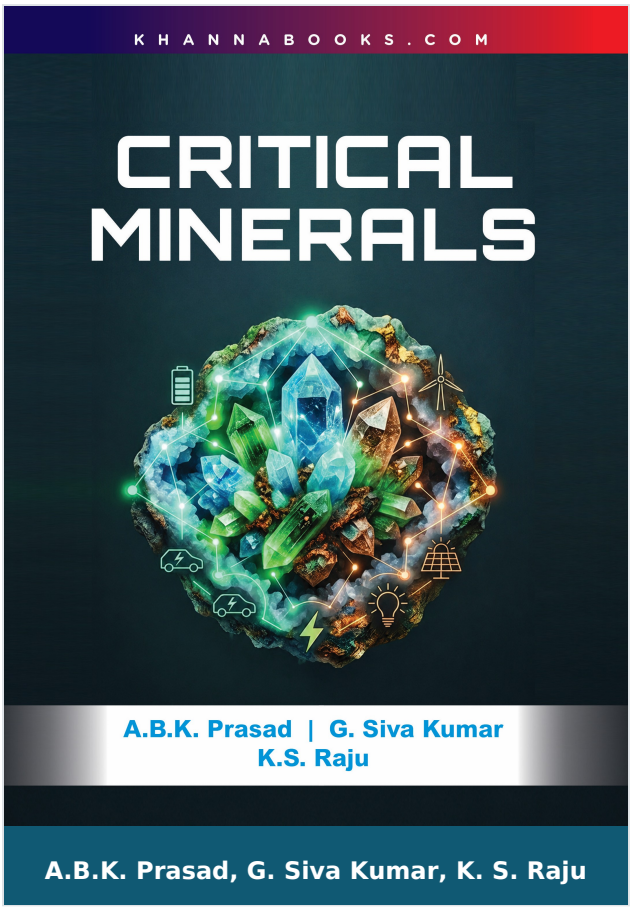
Jeeva Jose

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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Critical Minerals

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Product Description

The global transition from fossil fuel energy to green energy heavily relies on critical minerals containing lithium, nickel, cobalt, copper and Rare Earth Elements (REEs). Critical minerals provide a comprehensive guide to these essential resources, detailing their geological occurrence, mining techniques and processes. It highlights their indispensable role in manufacturing modern technologies from electric vehicle (EV) batteries, wind turbines to advanced digital electronics and strategic defence systems. Beyond the technical aspects, the book critically examines the geopolitical landscape, addressing market monopolies, price volatility, and supply chain uncertainties. It also sheds light on the environmental concerns of mining and India's strategic push for self-reliance through the National Critical Mineral Mission. Written with clarity, it serves as a highly useful resource for university students pursuing engineering, geology, metallurgy, and material sciences, as well as industry professionals navigating this vital sector. Salient Features Strategic Classification: Classifies critical minerals based on economic importance and global supply Rare Earth Elements: Covers the occurrence and complex chemical extraction processes of REEs Lithium Processing: Details advanced extraction techniques from hard rock pegmatites and continental brines Analytical Methods: Explains the use of advanced analytical instruments like ICP-MS, XRF, and LIBS for precise elemental analysis and mineral identification Green Energy: Explores the use of critical minerals and their compounds in EV motors, wind turbines, and solar panels Geopolitics: Analyses international trade policies, market monopolies and supply chain vulnerabilities India’s Initiatives: Details the National Critical Minerals Mission and domestic resource potential Environmental Impact: Discusses the ecological footprints of mining and processing operations and need for sustainabilit.

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Author

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G. Siva Kumar

G. Siva Kumar, K.S. Raju

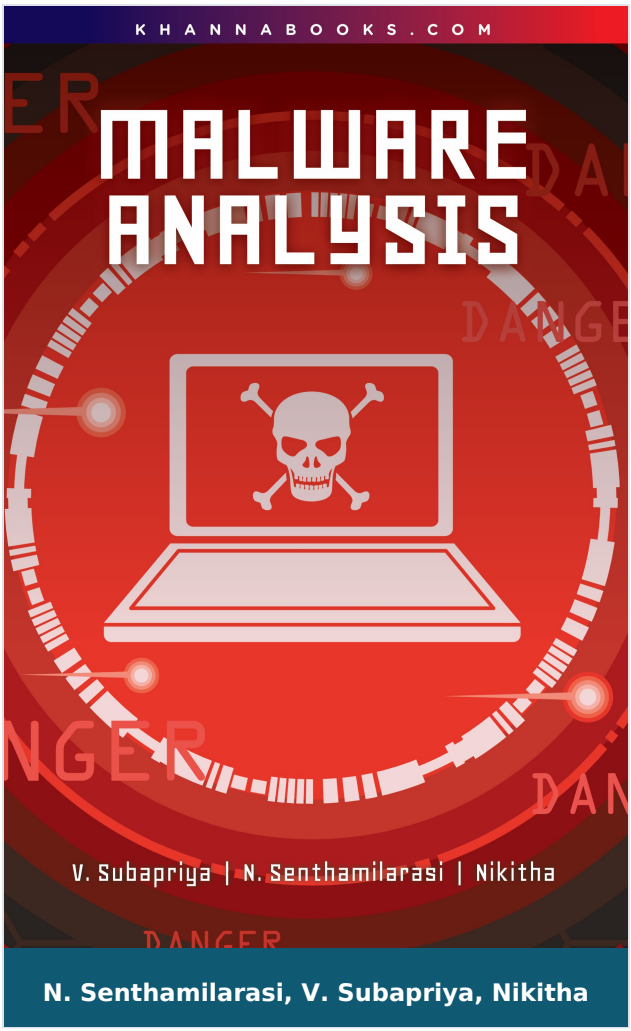
K. S. Raju

A.B.K. Prasad, G. Siva Kumar, K.S. Raju

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N. Senthamilarasi, V. Subapriya, Nikitha

Malware Analysis

Author :	N. Senthamilarasi, V. Subapriya, Nikitha
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Product Description

In today's interconnected digital landscape, the threat from malicious software is a constant and rapidly evolving challenge, capable of inflicting significant harm on individuals and organizations. MALWARE ANALYSIS is an essential guide crafted to provide a comprehensive foundation for cybersecurity specialization in both malware analysis and Operating System (OS) security. It is designed to equip students, security professionals, IT professionals, and researchers with the crucial tools and knowledge needed to identify, understand, and effectively neutralize threats in real-world environments.

The book's core value lies in its pragmatic approach, meticulously combining theoretical foundations with indispensable hands-on analysis techniques. Readers will gain an in-depth exploration of both static malware analysis (examining code without execution) and dynamic malware analysis (studying behavior during execution). The content systematically progresses from fundamental concepts of malware types—such as worms, ransomware, and rootkits—and their evolution to advanced analysis techniques. Key topics include setting up an isolated malware analysis lab, using powerful behavioral monitoring tools like Process Monitor and Wireshark, and advanced code-level debugging with tools like OLLYDBG. Furthermore, it covers advanced malware functionality like Process Injection and modern detection techniques, including signature-based, non-signature-based, and machine-learning methods. This text is an indispensable resource for mastering the skills required to safeguard digital infrastructure against emerging and complex cyber threats.

In today's interconnected digital landscape, the threat from malicious software is a constant and rapidly evolving challenge, capable of inflicting significant harm on individuals and organizations. MALWARE ANALYSIS is an essential guide crafted to provide a comprehensive foundation for cybersecurity specialization in both malware

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Salient Features:

● Malware Taxonomy Deep Dive: Explores the fundamental concepts, history, and taxonomy of malicious software, including worms, ransomware, rootkits, spyware, and sophisticated Advanced Persistent Threats (APTs).

● Static Analysis Mastery: Provides thorough instruction on static analysis techniques, covering X86 architecture, the Portable Executable (PE) File Format, and essential concepts like Opcodes and Disassembly for code inspection.

● Dynamic Behavior Profiling: Details the principles of dynamic analysis, including setting up an isolated Malware Sandbox and utilizing key tools like Process Monitor and

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Wireshark to observe runtime behavior and network traffic.

● Practical Lab Setup: Guides the reader through assembling a complete malware analysis toolkit, covering virtualization, isolation techniques, and the use of behavioral monitoring and code-analysis utilities.

● Advanced Debugging Techniques: Teaches practical skills in advanced code-level analysis, including kernel vs. user-mode debugging, setting Breakpoints and Tracing execution, and using debuggers like OLLYDBG.

● Covert Malware Functionality: Discusses sophisticated attack vectors and persistence mechanisms, such as Process Injection, Privilege Escalation, Downloaders, and Credential Stealers.

● Detection & Evasion Tactics: Explores contemporary techniques like signature-based, similarity-based, and Machine Learning methods for detection, alongside malware evasion tactics such as Polymorphic and Metamorphic code.

● Integrated OS Security: Provides fundamental context by linking malware analysis directly to OS Security concepts, including principles like integrity, confidentiality, and availability, and various system threats.

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Mastering MERN(Full-Stack Web Development Simplified)

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Product Description

Welcome to Mastering MERN: Full-Stack Web Development Simplified. This book provides a seamless, structured journey into building dynamic, single-page applications (SPAs) using MongoDB, Express.js, React.js, and Node.js. Its core purpose is to bridge the gap between front-end and back-end technologies, empowering you to build end-to-end applications using a single programming language: JavaScript.

Readers will establish a strong foundation in JavaScript before diving into backend data management with MongoDB and Mongoose. The journey continues with front-end UI development using React, followed by constructing robust RESTful APIs with Node.js and Express.js.

Designed for students, aspiring software engineers, and professional developers, this book takes you from foundational JavaScript concepts to advanced API construction. It culminates in a hands-on integration of CRUD operations across the entire MERN stack, ensuring your theoretical knowledge translates directly into real-world application development.

Salient Features

• Foundational JavaScript Concepts: Master essential language mechanics, including variables, control flow, array methods, and modern functions, providing a robust base for full-stack logic.

• MongoDB Data Modeling: Utilize Mongoose to design flexible NoSQL schemas, enforce data structures, and handle complex one-to-many or many-to-many database relationships.

• React Component Architecture: Break down complex user interfaces into reusable, self-contained functional or class components while ensuring predictable unidirectional data flow via props.

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• State Management Mastery: Efficiently control dynamic application data and handle side effects using modern React Hooks like useState, useEffect, and useReducer.

• Robust Backend Development: Leverage the event-driven, single-threaded, and non-blocking I/O model of Node.js to create highly scalable, performant server-side architectures.

• RESTful API Construction: Simplify server logic using Express.js to seamlessly manage middleware, process form data, and route varying HTTP requests and responses.

• Full-Stack CRUD Integration: Bridge the gap between distinct technologies by building a fully functional application that integrates a React frontend with a backend API.

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User Interface Design

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Product Description

This authoritative textbook, User Interface Design, is a comprehensive and practical guide dedicated to mastering the art and science of building modern, responsive, and engaging web interfaces. The book is structured around the practical application of essential front-end technologies, providing a clear path for readers to transition from foundational markup to advanced dynamic design.

The core theme revolves around the latest standards, specifically providing an in-depth exploration of HTML5 and CSS3. Readers will gain proficiency in crucial contemporary features such as semantic document structuring, rich media integration (native audio and video), client-side data persistence via Web Storage, and interactive capabilities using the Canvas API for 2D graphics. Furthermore, it covers advanced techniques like implementing Geolocation for location-aware applications and leveraging frameworks like Bootstrap for efficient, responsive layouts.

Authored by experts in Information Technology, this resource is invaluable for a broad audience: students and academics in Computer Science and Web Development seeking a strong theoretical and practical foundation, as well as aspiring and practicing web professionals looking to update their skills with current industry standards. By offering detailed code examples and focusing on practical value, the book ensures that readers can immediately apply these powerful tools to create high-performing and user-centric interfaces.

Salient Features:

• Semantic HTML5 Mastery: Covers new HTML5 elements like <article>, <section>, and <header> to help readers create a meaningful, better-structured, and more accessible document outline.

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• Rich Media Integration: Detailed instruction on embedding and controlling native audio and video content using the <audio> and <video> tags, eliminating reliance on external plug-ins like Flash.

• Client-Side Capabilities: Explores powerful browser APIs, including Geolocation for location-aware apps and Web Storage for persistent, secure client-side data handling (local and session storage).

• Dynamic Graphics Design: Provides practical instruction on using the Canvas API with JavaScript to create programmable, two-dimensional graphics, facilitating the development of complex interactive visuals.

• Responsive Design Frameworks: Features a comprehensive guide to CSS3 and its advanced features, alongside the utilization of the Bootstrap framework for quickly building mobile-first and responsive web layouts.

• Advanced Form Elements: Focuses on HTML5 Forms 2.0, introducing new input types (like email, date, number) and attributes for improved user experience, data validation, and specialized input fields.

• Code-Based Learning: Emphasizes learning through direct implementation by providing numerous detailed HTML, CSS, and JavaScript code snippets with corresponding output examples for every core concept.

• Modern Style Techniques: Covers essential CSS3 features such as advanced selectors, text shadow effects, 2D and 3D transformations, and implementations like border-radius and box-shadow.

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R Programming

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Product Description

This comprehensive textbook, R Programming, is meticulously designed to serve as a complete, hands-on guide for mastering R, the world's most popular open-source language for statistical computing and data analysis. The book's core theme is bridging the gap between theoretical data science concepts and practical implementation, offering a seamless learning journey from fundamental programming syntax to advanced analytical applications. It begins by laying a solid foundation in the History and Fundamentals of R, covering installation, package management, control structures, and essential data operations like matrices and strings.

The purpose is to equip readers with the skills to effectively manipulate, analyze, and visualize data, leveraging R's outstanding graphical capabilities. The practical value is immediately evident through its coverage of reading and writing various data interfaces (CSV, XML, Web Data) and generating professional-grade charts and graphs for visualization. Moving beyond basics, the book dedicates extensive sections to applying core Statistical Techniques (including distributions, ANOVA, and time series analysis) and diving deep into Machine Learning paradigms like Classification (Random Forest, SVM), Clustering (K-Means), and Association Rule Mining (Apriori). Finally, it introduces cutting-edge application development using R Shiny to build interactive web applications and scales up analysis with instruction on Integrating Hadoop with R. The target audience includes students (particularly those in courses like SCSA4001), data science professionals, statisticians, and researchers seeking a practical, cross-platform resource for data-driven decision-making.

Salient Features:

• Fundamental R Concepts: Provides a robust introduction to R, covering installation, package management, control structures (loops, conditionals), user-defined functions, and matrix/string operations.

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• Comprehensive Data I/O: Details methods for reading and writing data using R, including common formats like CSV and XML, as well as techniques for scraping and interacting with Web Data.

• Statistical Toolkit: Explores key statistical applications such as descriptive statistics, probability distributions, ANOVA, and time series analysis, utilizing essential R packages like MASS and STATS.

• Hands-on Visualization: Teaches the creation of various graphical representations, including Pie Charts, Bar Charts, Box Plots, and Scatter Plots, to effectively communicate data insights.

• Core Classification Models: Explains the implementation of major classification algorithms like Decision Trees, Random Forest, and Support Vector Machines (SVM) for building predictive models.

• Advanced Data Mining: Covers unsupervised learning with K-Means Clustering, discovers patterns with Apriori Association Rule Mining, and identifies anomalies through Local Outlier Factor (LOF) Analysis.

• Interactive App Development: Guides the user in creating and deploying R Shiny web applications, covering UI.R and Server.R components for dynamic, shareable visualizations.

• Big Data Scalability: Introduces the concept and practical steps for Integrating R with Hadoop using the RHadoop framework, enabling users to perform analysis on massive datasets.

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Lekshmi S. Raveendran, Minu Susan Jacob, R. Sathyabama Krishna

Machine Learning Tools & Techniques

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Product Description

"Machine Learning Tools and Techniques" serves as a thorough and approachable guide, offering a comprehensive overview of essential ML concepts, tools, and methodologies crucial for navigating the modern era of artificial intelligence and big data. The book is purposefully structured to bridge the gap between theoretical foundations and practical implementation, making it a critical resource for developing intelligent systems.

The learning journey begins with core data mining principles, exploring the process, fielded applications across industries like finance and healthcare, and the foundational relationship between machine learning and statistics. It systematically builds expertise through detailed discussions on knowledge representation (including trees, linear models, and rules) and the crucial concepts of model credibility and evaluation, covering rigorous techniques like cross-validation, hyperparameter tuning, and the Minimum Description Length (MDL) principle. A strong emphasis is placed on essential data preprocessing and transformation methods, such as attribute selection and data cleansing.

Crucially, the book introduces a versatile ML tool-kit, providing hands-on application demonstrations for industry-standard platforms and libraries, including Scikit-Learn, TensorFlow, PyTorch, KNIME, and IBM Watson. This text is an ideal resource for students, researchers, and professionals seeking to gain hands-on expertise in applying cutting-edge ML solutions to develop real-world applications and contribute meaningfully to the field of AI and data analytics.

Salient Features:

• Foundational Concepts: Covers the complete data mining process, the core relationship between machine learning and statistics, and essential ethical considerations for responsible AI deployment.

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• Knowledge Representation: Detailed explanation of diverse representation methods, including decision trees, linear and rule-based models, instance-based learning, and unsupervised clustering techniques.

• Credibility and Validation: Focuses on rigorous model evaluation using techniques like cross-validation and hyperparameter selection, alongside the Minimum Description Length (MDL) principle to prevent overfitting.

• Data Transformation Methods: Explores crucial data preprocessing steps such as attribute selection, feature engineering, data cleansing, and techniques for handling multi-class data for binary classifiers.

• Algorithmic Techniques: Deep dive into predictive modeling using advanced Decision Trees, Classification and Association Rules, along with extending instance-based and local linear models.

• Practical ML Tool-Kit: Hands-on introduction to widely adopted machine learning platforms and libraries, including TensorFlow, Scikit-Learn, PyTorch, and visual tools like KNIME and WEKA.

• Real-World Applications: Features numerous fielded applications across healthcare, finance, e-commerce, and cybersecurity, including practical case studies for conceptual reinforcement.

• Refining Predictions: Discusses advanced concepts for enhancing model trustworthiness, such as evaluating numeric prediction models and calibrating class probabilities for reliable decision-making.

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