

Volume 2

Issue 5

September- October 2023

The Mithibai Chronicles



The Mithibai Chronicles is a bimonthly newsletter of Mithibai College Jitendra Library. The main objective of this Newsletter is to provide information about New Arrivals and other library resources to library users. Additionally, it serves as a communication channel between a library and its users. Activities conducted in the library are communicated to the users via this Newsletter. The Mithibai Chronicles will surely quench the thirst of the young, vibrant minds of Mithibai College. We are sure that you will enjoy reading this Newsletter.

***Mrs. Archana Garate
Librarian***

केवल कुछ समय के लिए पुस्तकों को रटकर ज्ञान अर्जित न करें, बल्कि पुस्तकों को ध्यान से पढ़कर पूरी उम्र भर के लिए ज्ञान अर्जित करें।

Newsletter at a Glance

Newly Arrived Books

Book Reviews

Online Periodicals:

From N-LIST database

From ProQuest Database



***HAPPY
READING!***

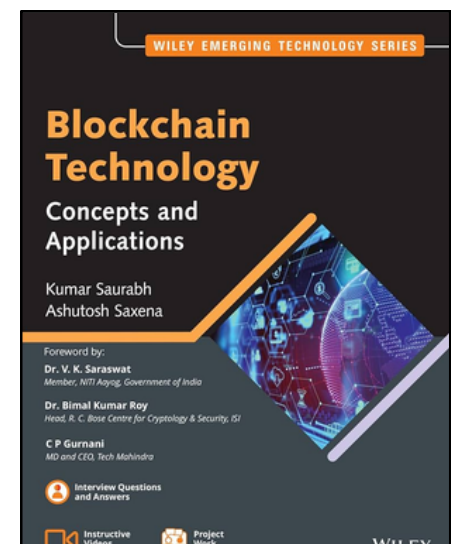
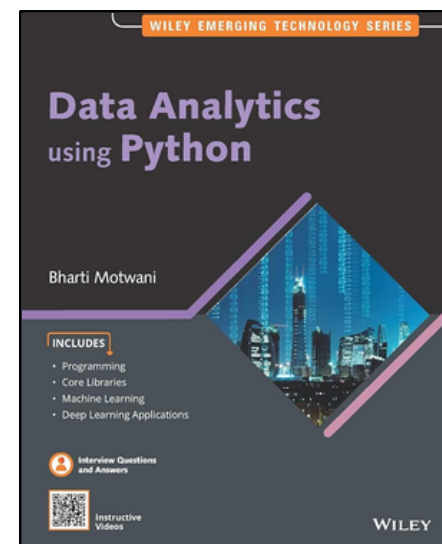
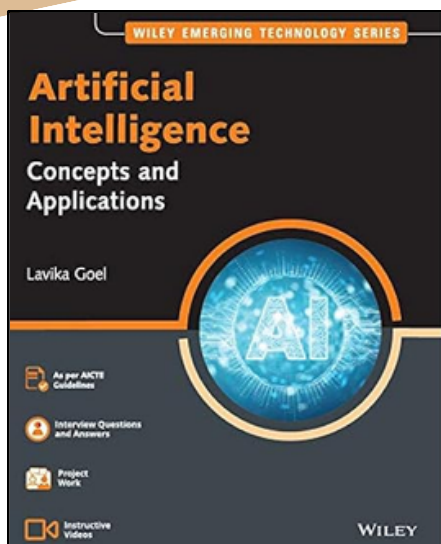
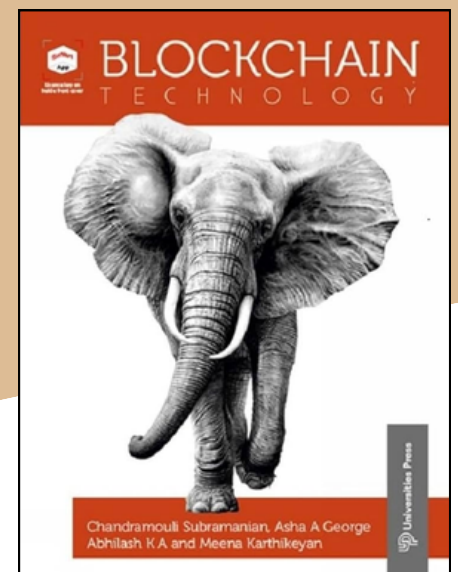
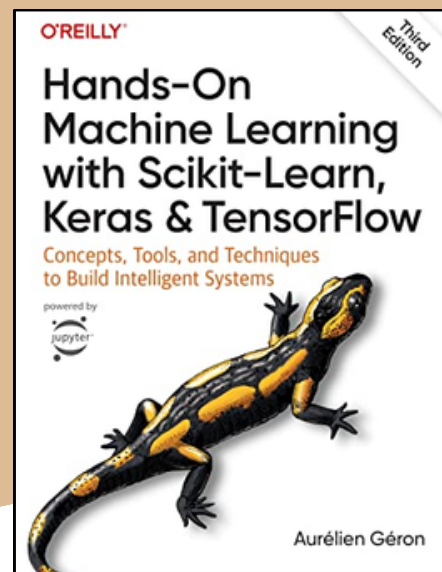
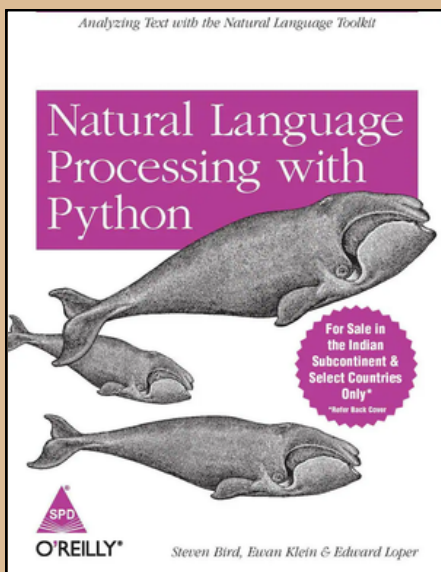
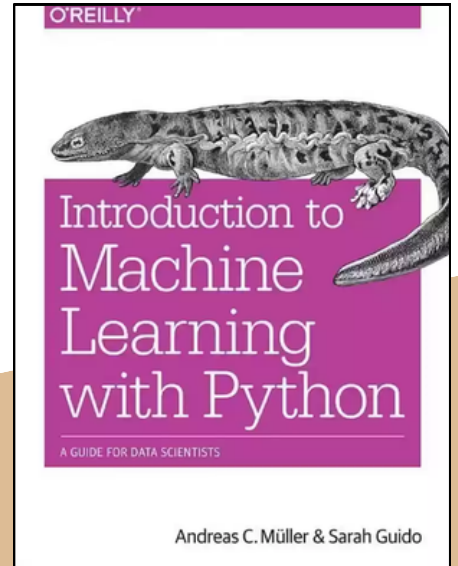
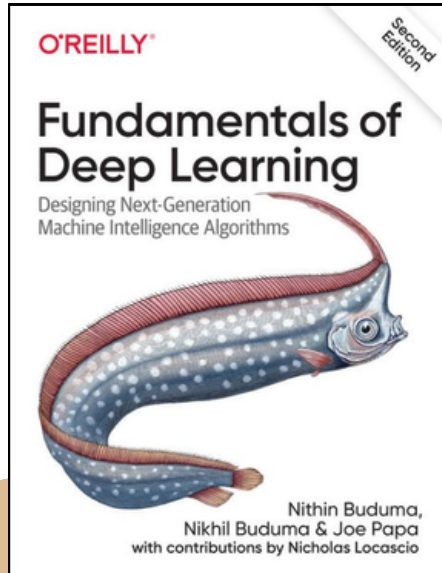
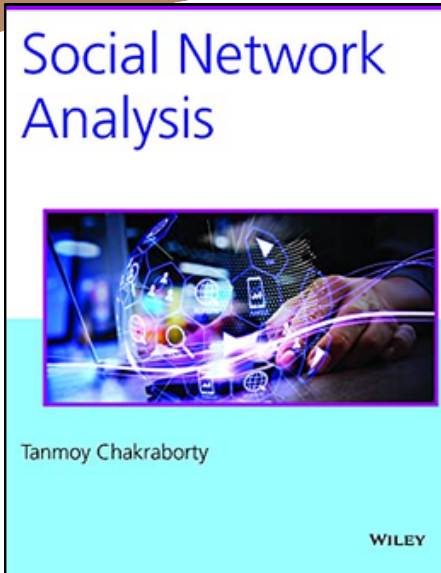


या कुन्देन्दुतुषारहारधवला या शुभ्रवस्त्रावृता।
या वीणावरदण्डमण्डितकरा या श्वेतपद्मासना॥
या ब्रह्माच्युत शंकरप्रभृतिभिर्देवैः सदा वन्दिता।
सा मां पातु सरस्वती भगवती निःशेषजाड्यापहा॥1॥

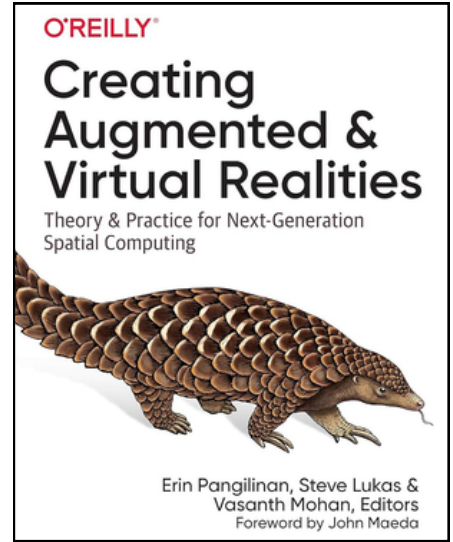
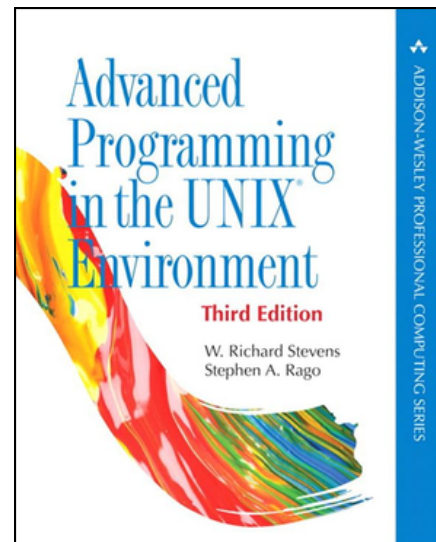
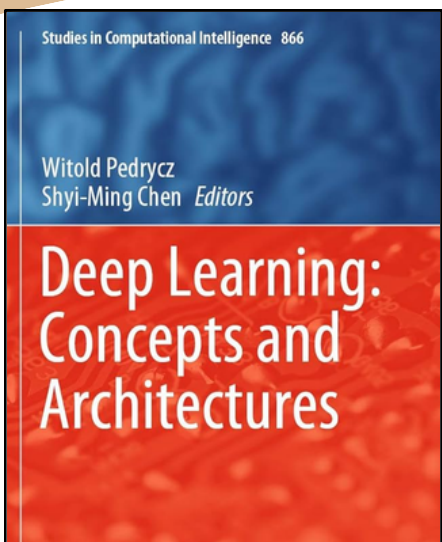
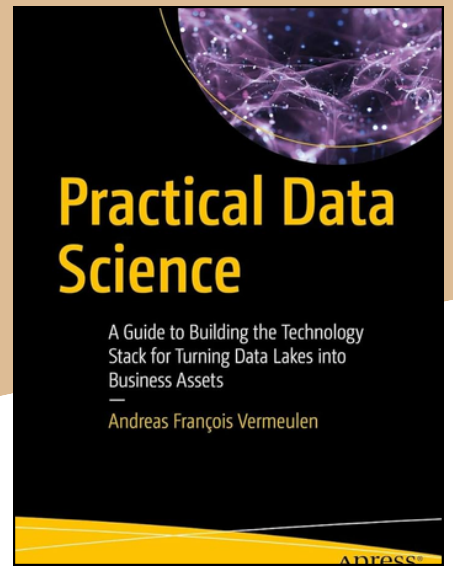
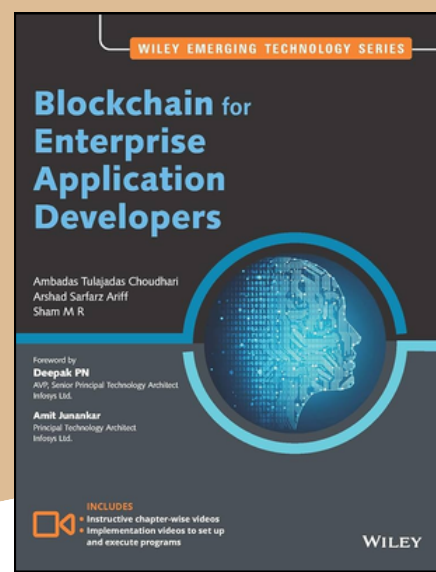
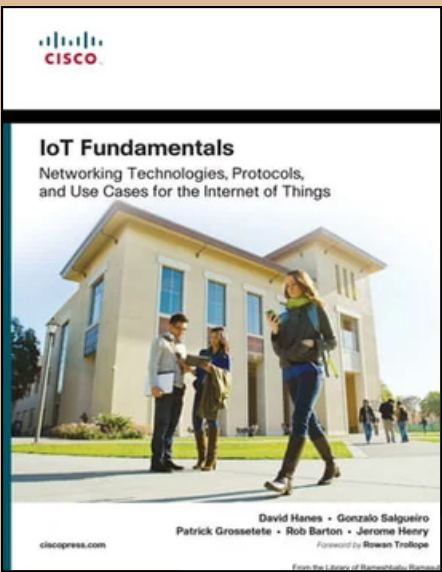
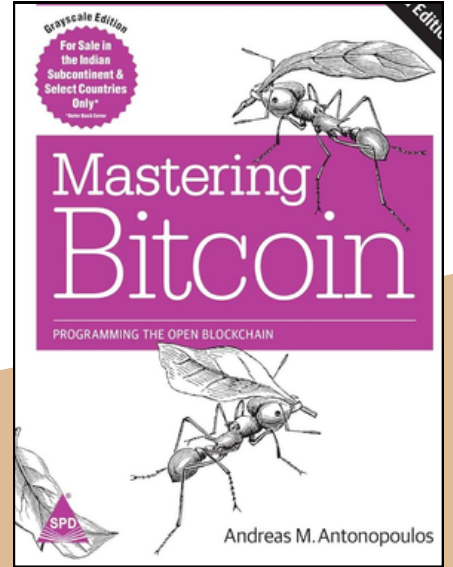
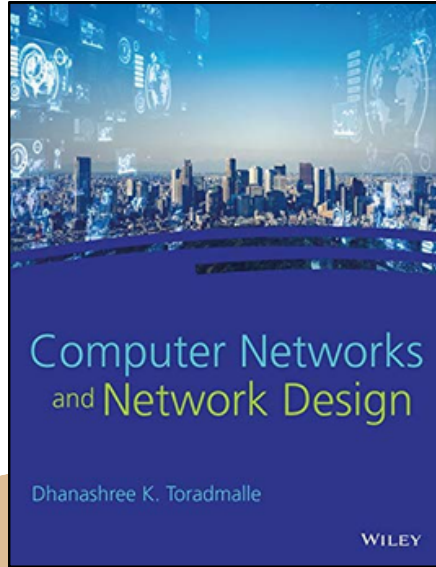
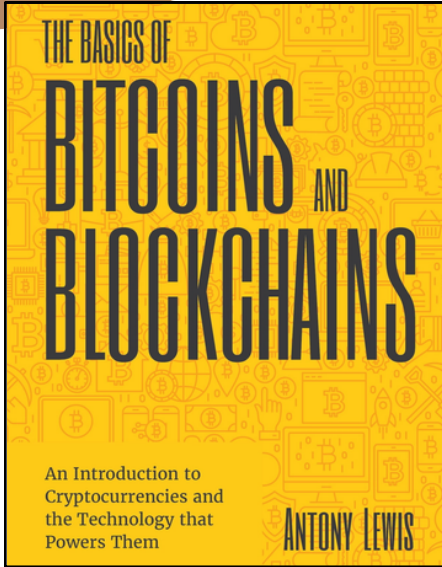
अर्थात्

माँ भगवती सरस्वती जो विद्या तथा ज्ञान की देवी है, कुन्द के फूल, चंद्रमा, हिमराशि और मोती के हार की तरह धवल वर्ण की हैं तथा जो हमेशा श्वेत वस्त्र धारण करती हैं, एवं इनके हाथ में वीणा-दण्ड शोभायमान रहती है, जो श्वेत कमलों पर आसन ग्रहण किये हुए हैं और भगवान ब्रह्मा, विष्णु एवं शंकर आदि देवताओं द्वारा हमेशा पूजी जाती है, वही संपूर्ण जड़ता तथा अज्ञान को दूर करने वाली माँ सरस्वती हर विपत्ति से हमारी रक्षा करें!

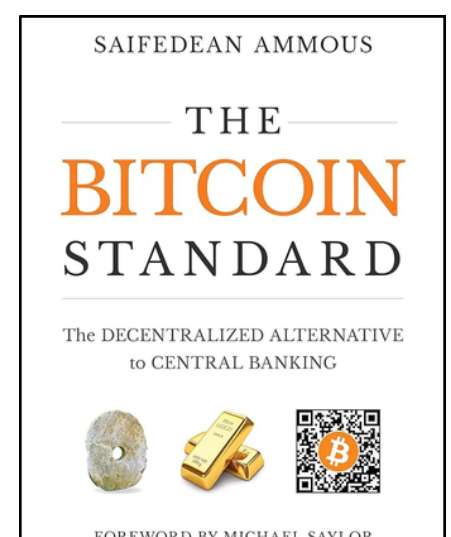
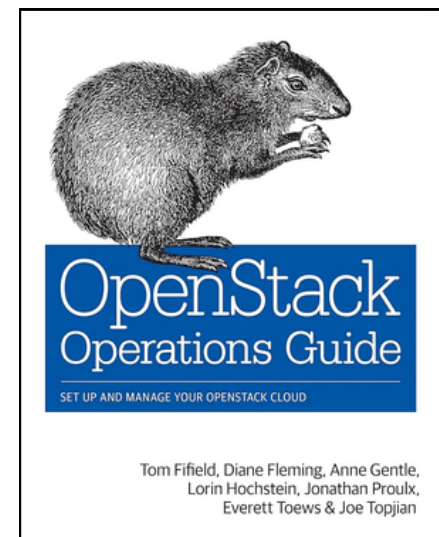
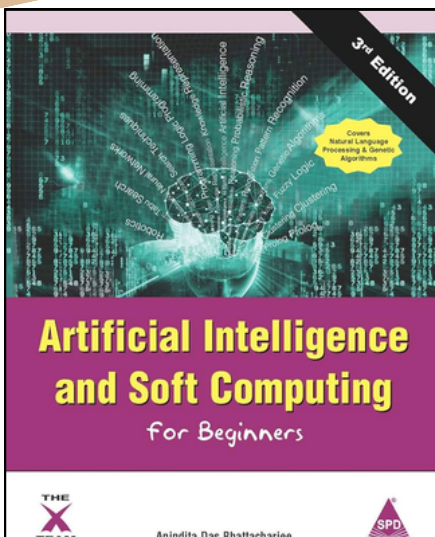
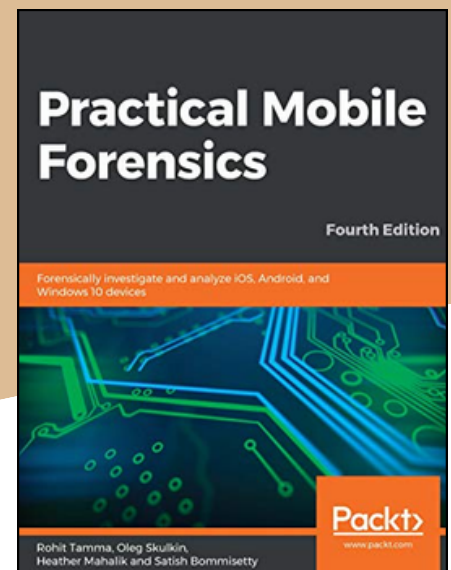
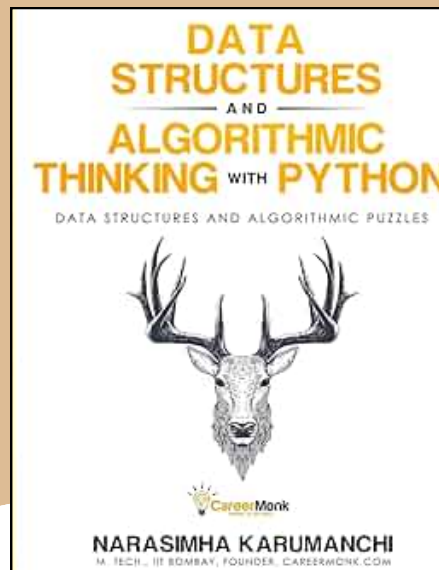
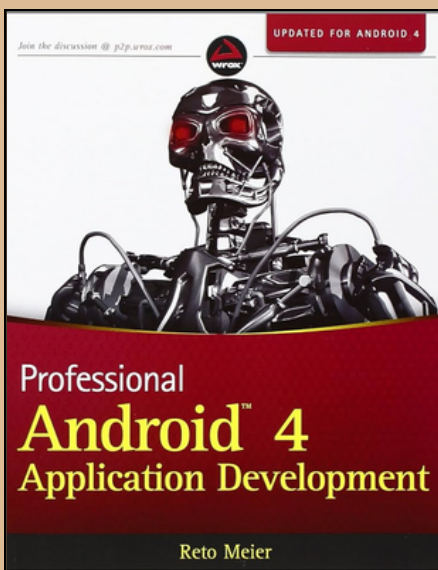
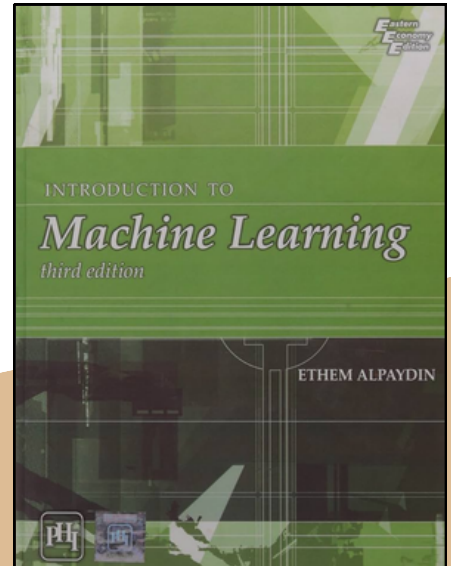
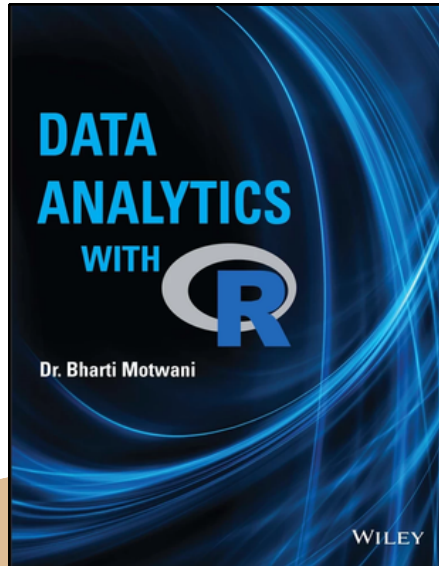
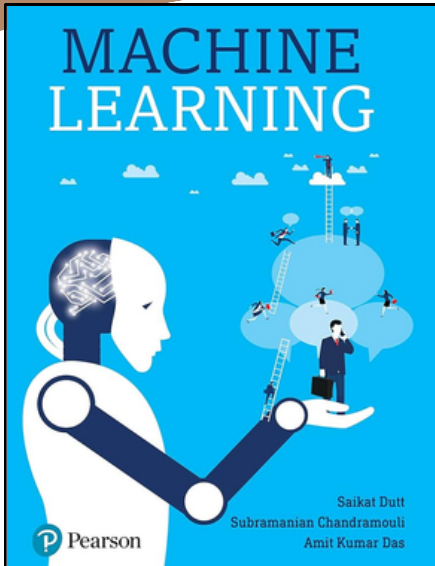
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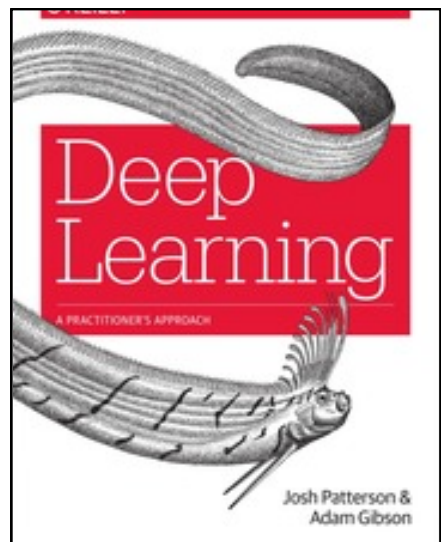
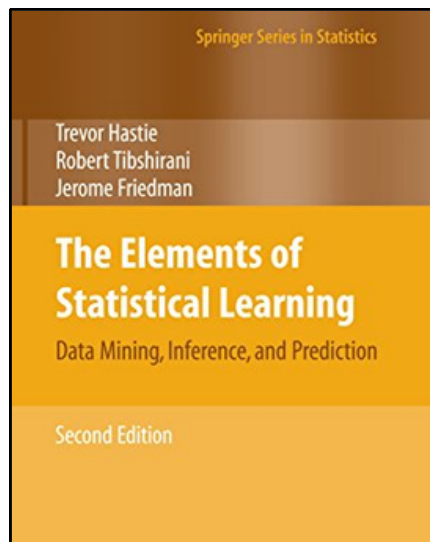
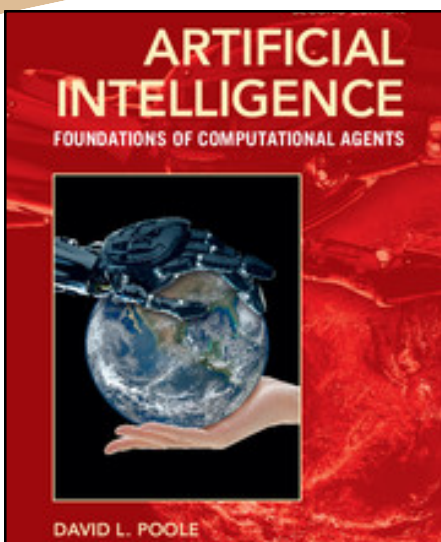
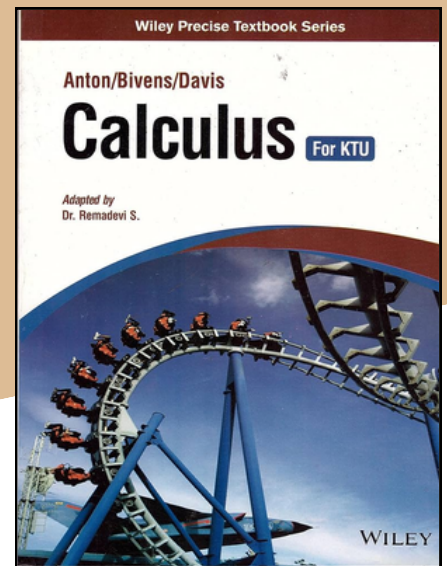
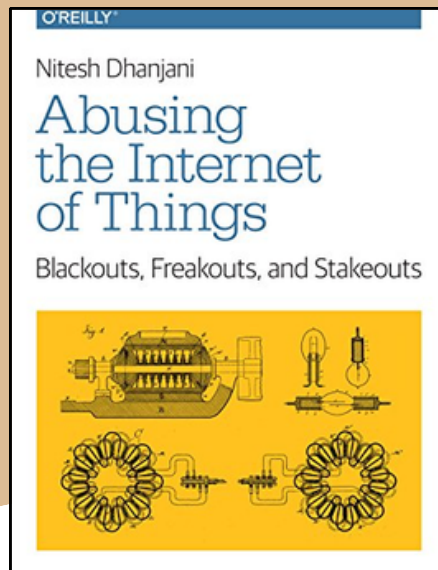
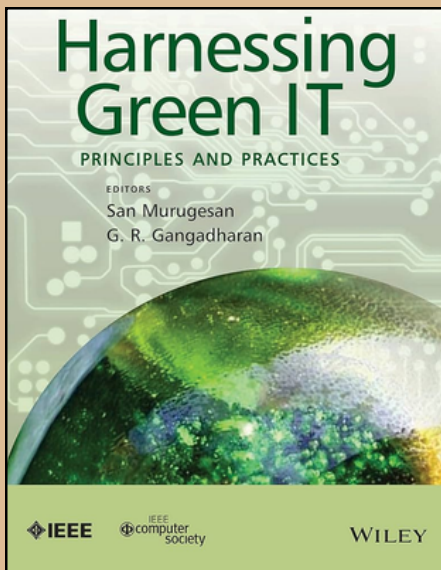
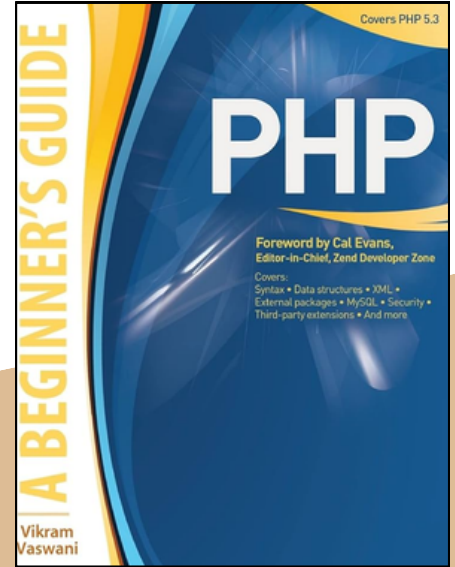
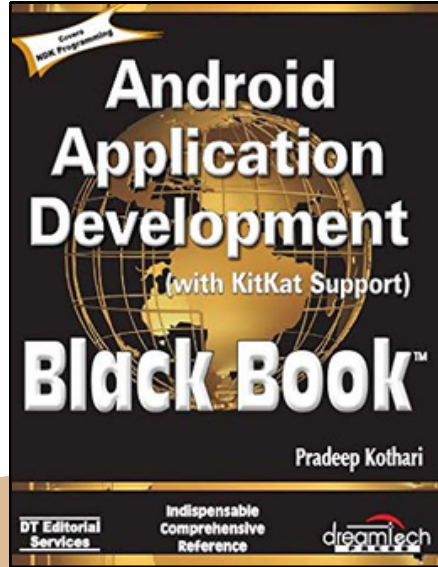
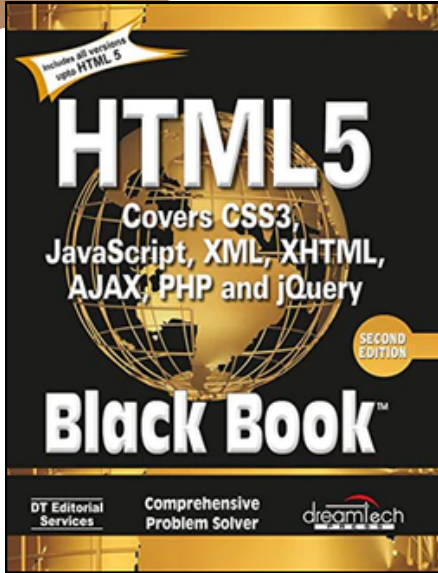
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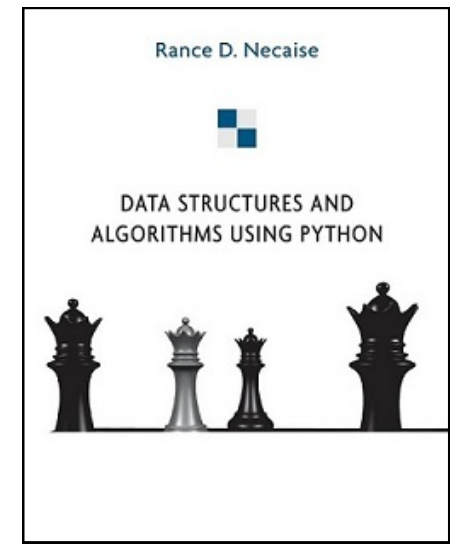
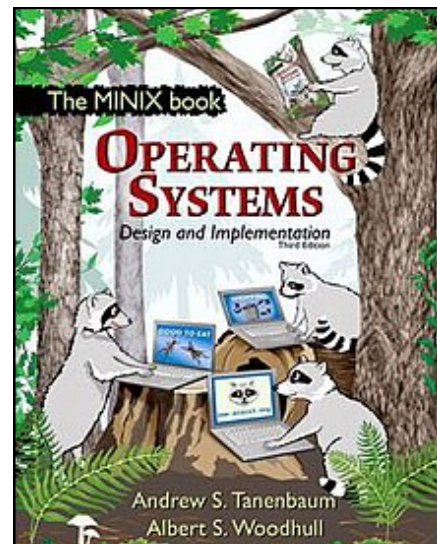
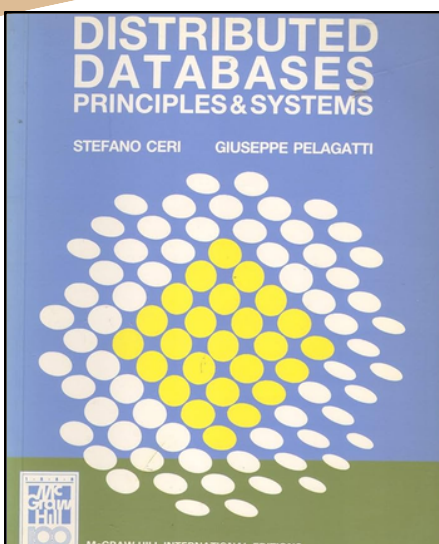
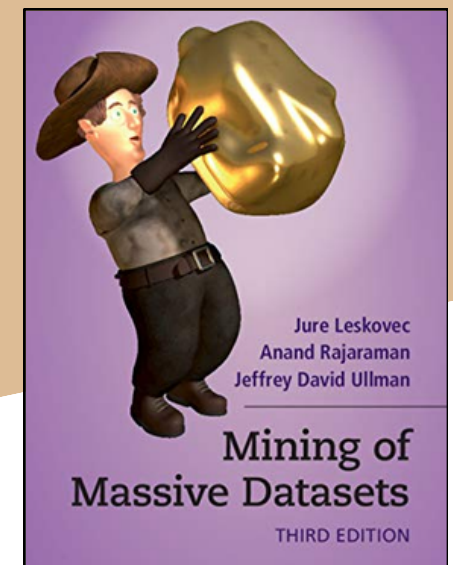
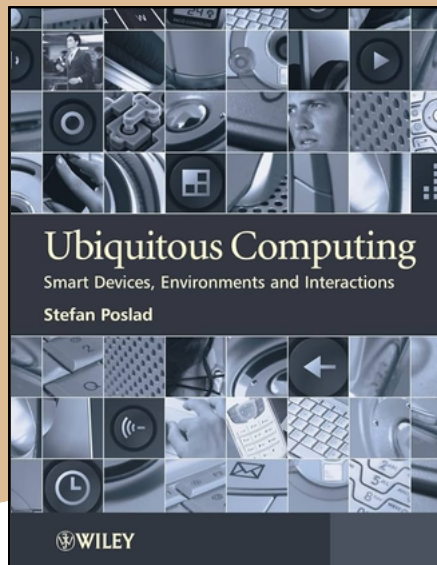
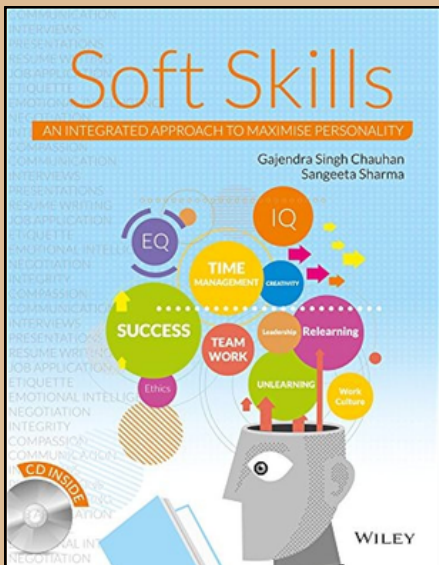
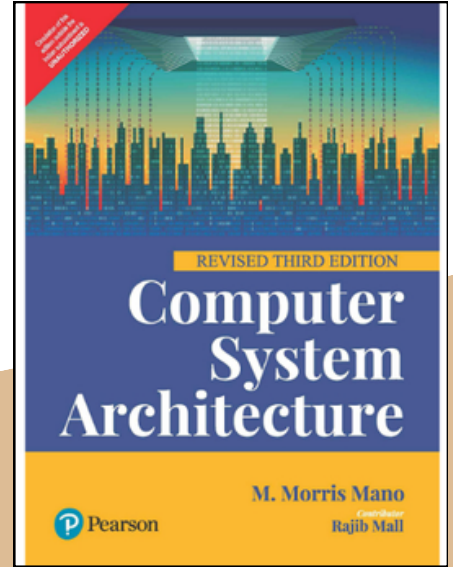
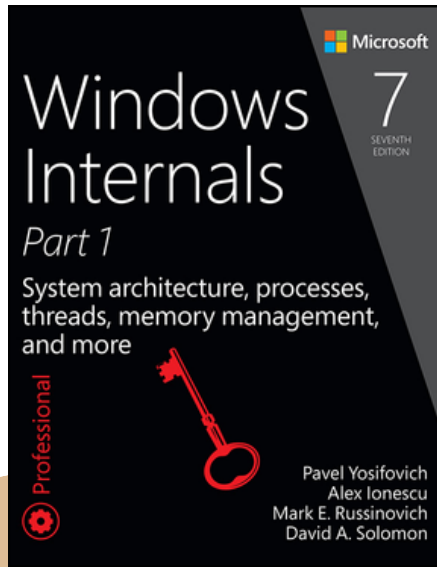
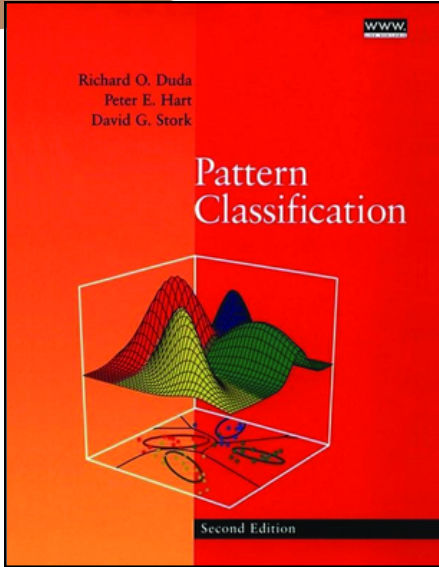
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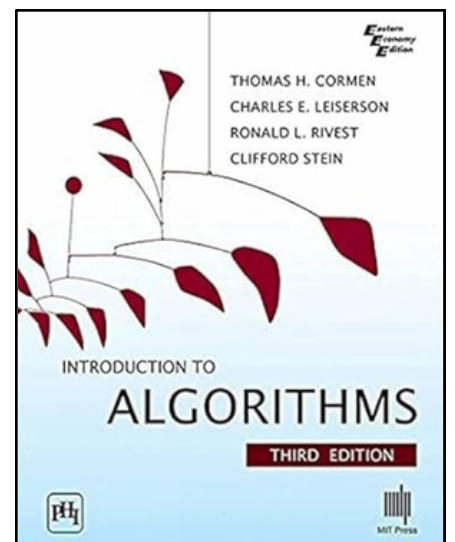
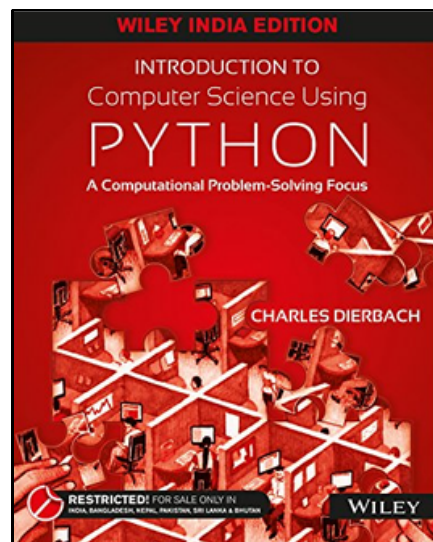
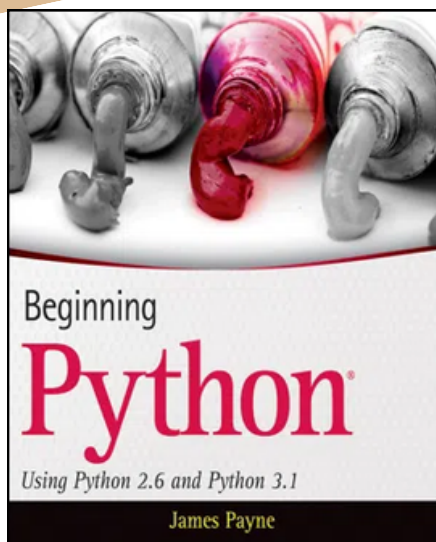
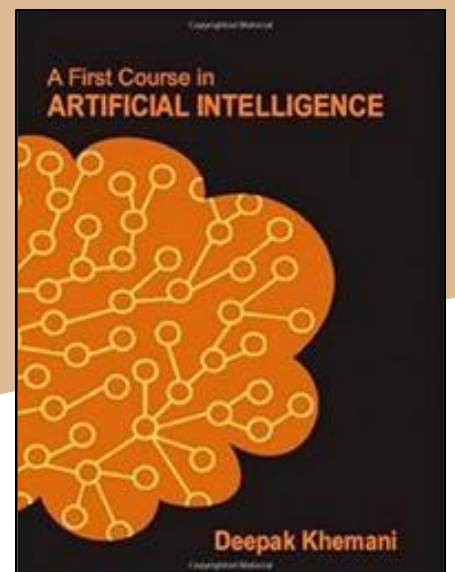
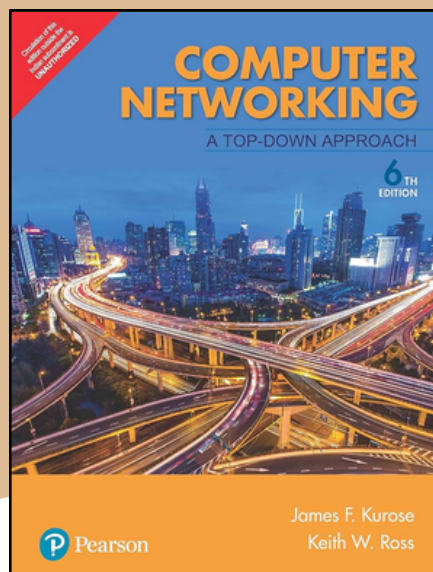
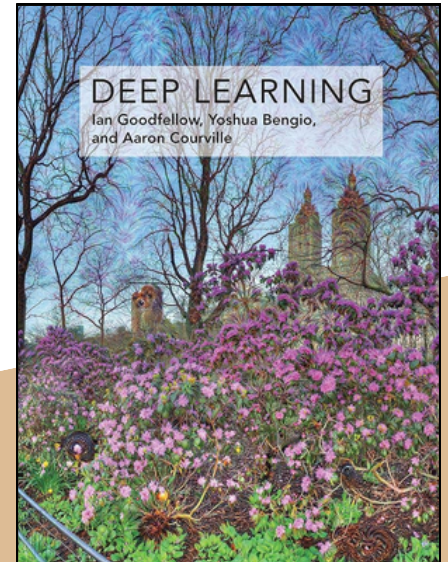
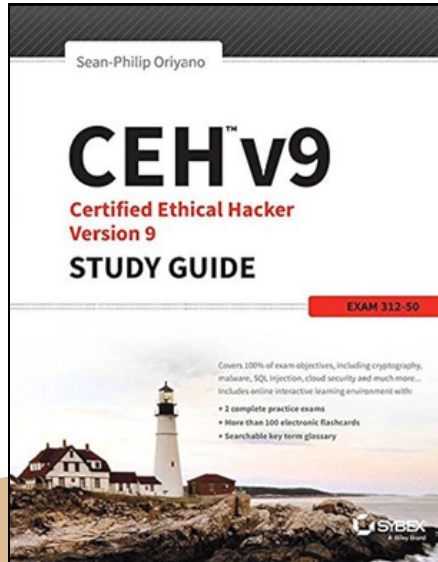
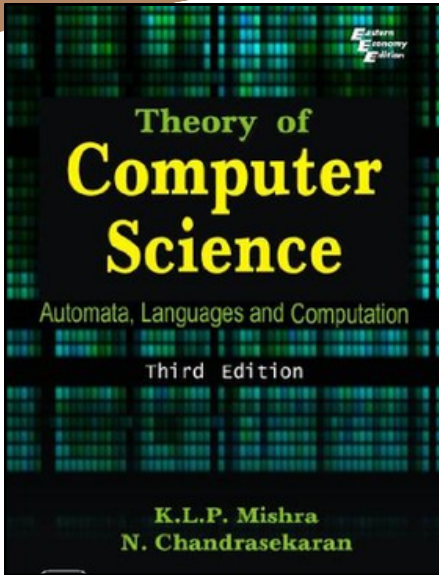
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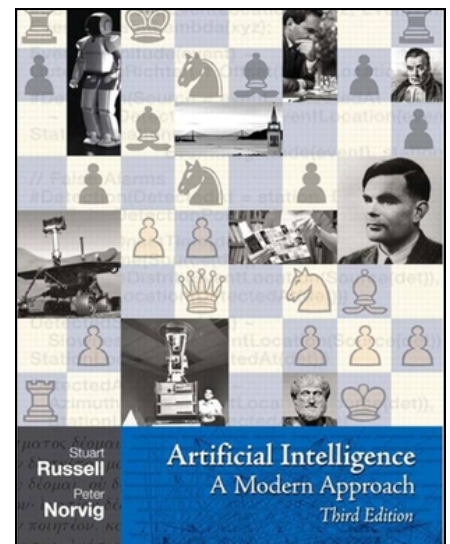
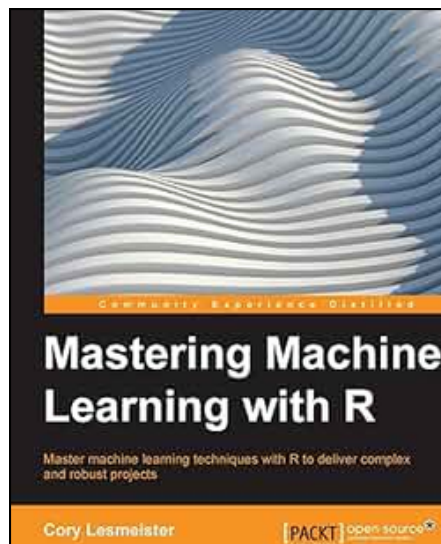
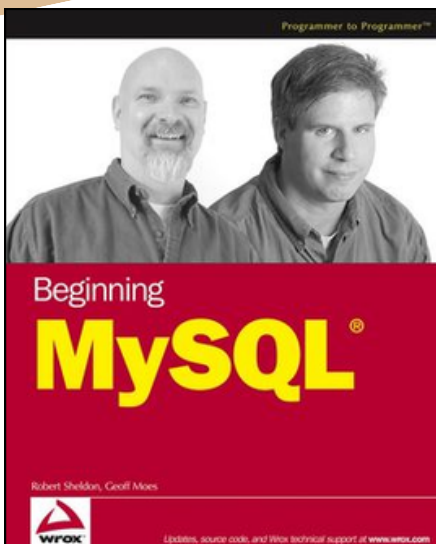
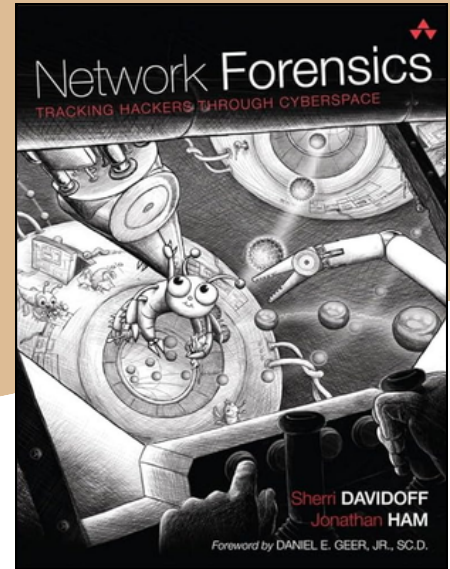
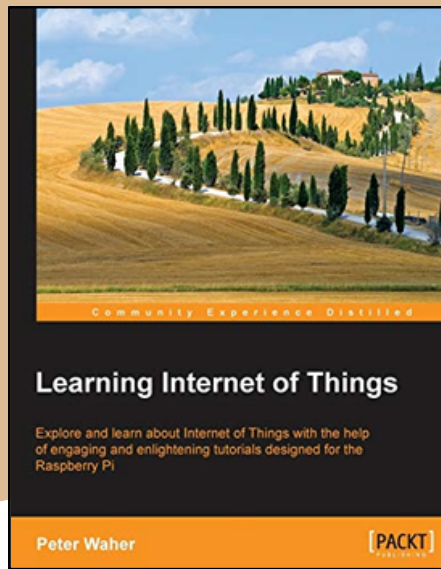
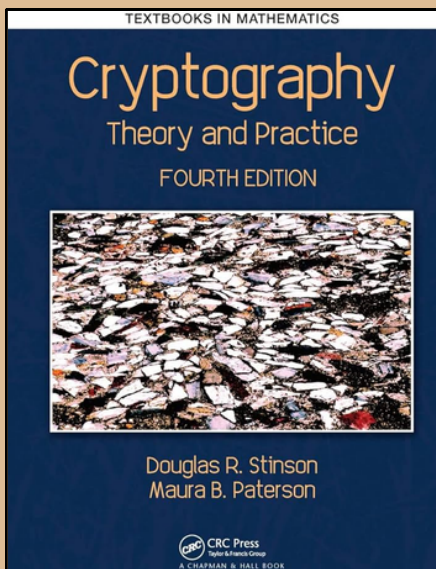
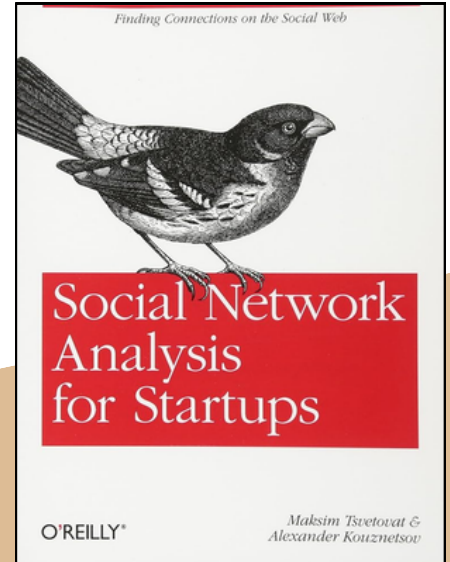
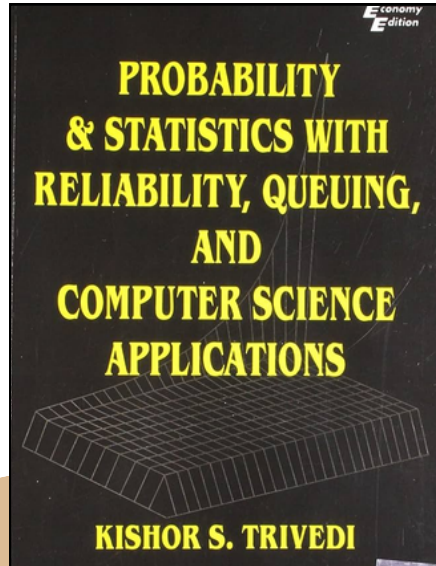
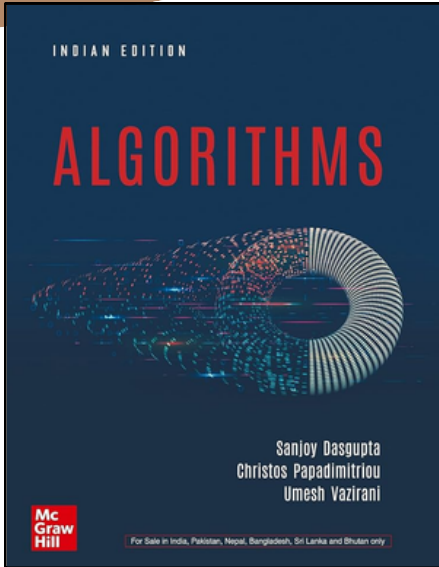
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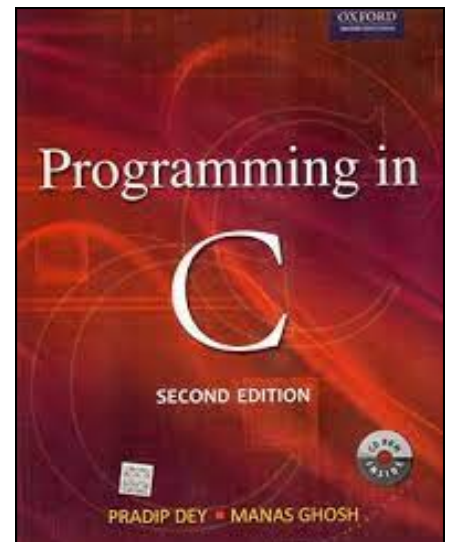
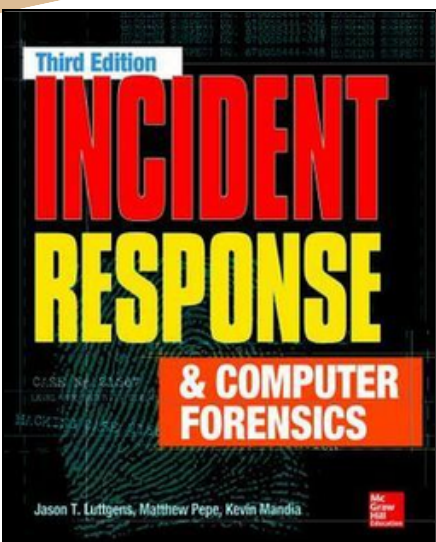
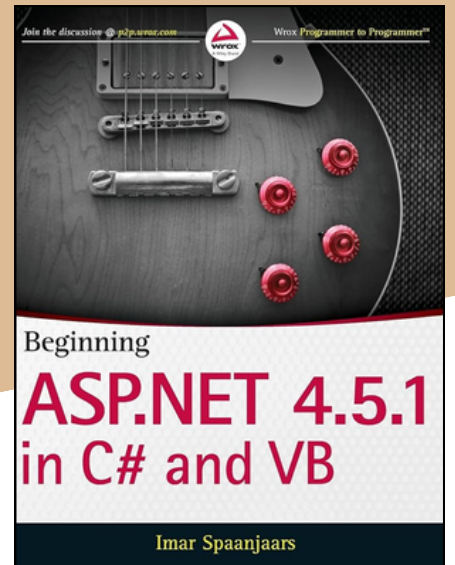
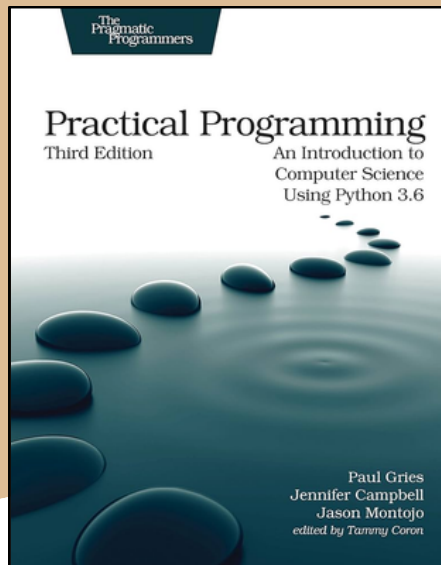
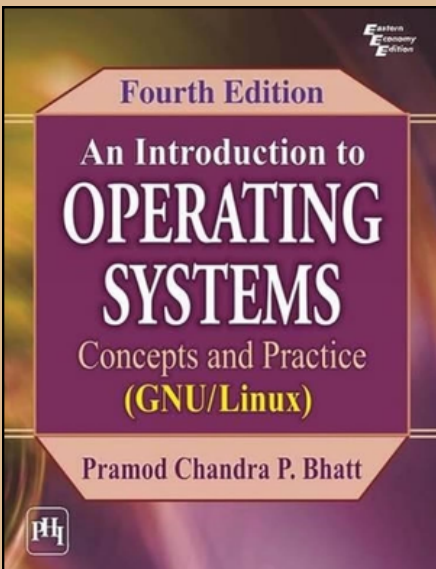
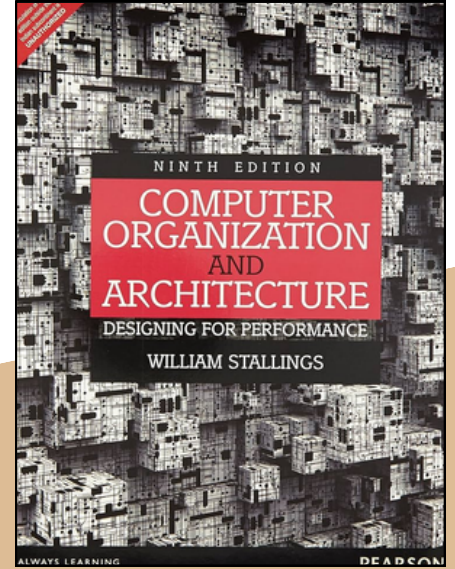
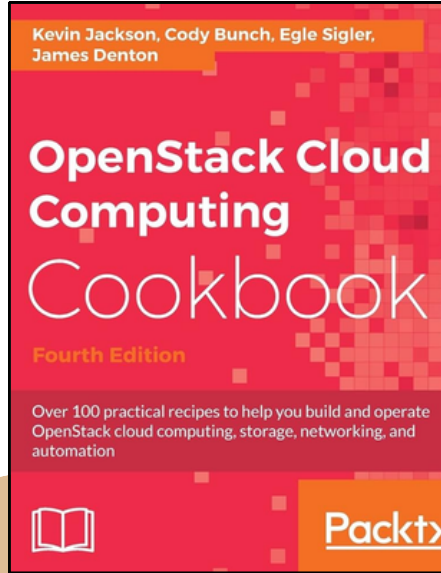
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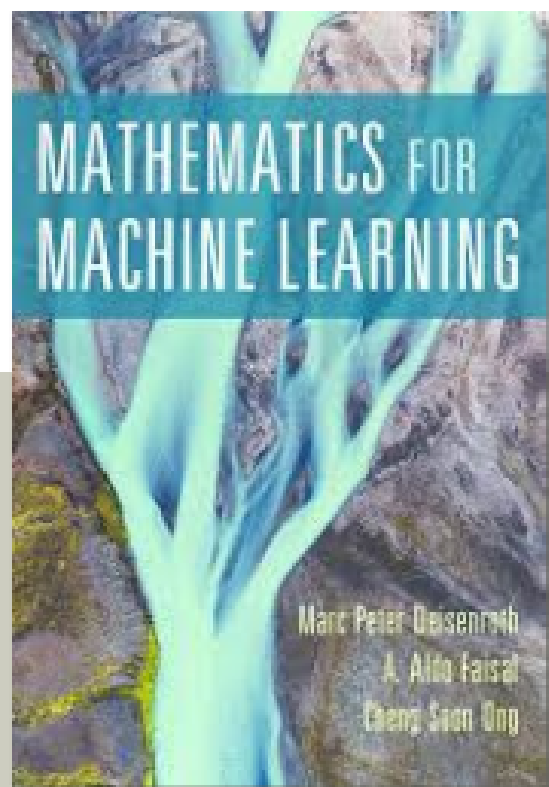
BOOK REVIEW

MATHEMATICS FOR MACHINE LEARNING

BY MARC DEISENORTH

"Mathematics for Machine Learning" is an indispensable resource for individuals delving into the complex world of machine learning. Authored by Marc Peter Deisenroth, A Aldo Faisal, and Cheng Soon Ong, this book bridges the gap between mathematics and its application in machine learning algorithms.

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The book carefully covers fundamental mathematical concepts essential for machine learning. It progresses from basic linear algebra and calculus to more advanced topics such as optimization, probability, and information theory. Each concept is elucidated with clarity, providing intuitive explanations alongside practical examples, which aids comprehension even for readers with limited mathematical background.

One of the book's standout features is its emphasis on connecting mathematical theory with real-world machine-learning problems. Readers understand how mathematical concepts translate into algorithms and models used in various machine-learning tasks through insightful examples and exercises.

The authors' pedagogical approach is commendable, as they gradually build upon foundational concepts, ensuring readers grasp each topic before advancing to more complex ones. Additionally, the inclusion of Python code snippets and interactive Jupyter notebooks reinforces learning by allowing readers to experiment and apply mathematical concepts in practical scenarios.

However, some readers might find certain sections challenging, particularly those who have yet to gain prior exposure to higher mathematics. Nevertheless, the book's comprehensive coverage and well-structured presentation make it an invaluable resource for students.

In a nutshell, "Mathematics for Machine Learning" is an indispensable guide that demystifies the intricate mathematics behind machine learning, making it accessible to a wide audience while providing essential insights into the theoretical foundations of this burgeoning field.

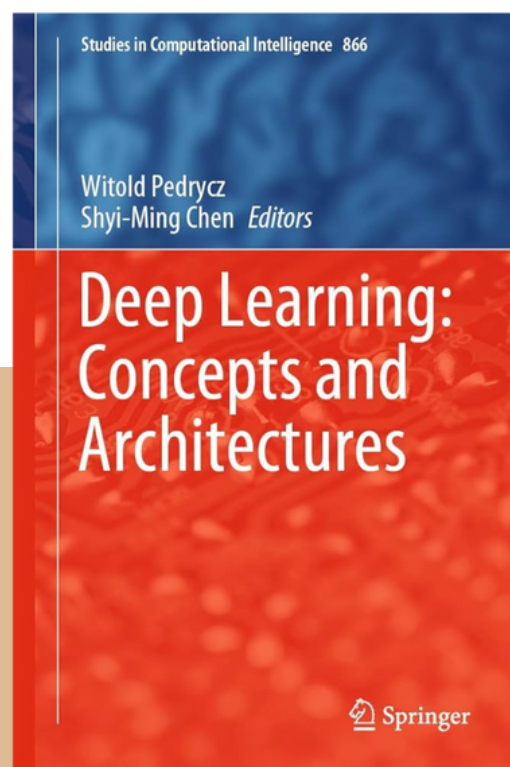
BOOK REVIEW

DEEP LEARNING CONCEPTS AND ARCHITECTURES

EDITED BY WITOLD PEDRYCZ &
SHYI-MING CHEN

"Deep Learning Concepts and Architectures", authored by Witold Pedrycz, offers a comprehensive exploration of the complexities of deep learning, providing both beginners and accomplished practitioners with a thorough understanding of its concepts and architectures.

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The author begins by elucidating the foundational principles of deep learning, gradually progressing to more advanced topics. The book adeptly navigates through the mathematical underpinnings of deep learning, including neural networks, optimization techniques, and regularization methods. Each concept is accompanied by clear explanations and illustrative examples, ensuring readers comprehend the underlying principles and their practical applications.

One of the book's strengths is its comprehensive coverage of deep-learning architectures. From convolutional neural networks (CNNs) for image recognition to recurrent neural networks (RNNs) for sequential data processing, the author provides detailed insights into the design and functioning of these architectures. Moreover, he explores cutting-edge developments such as generative adversarial networks (GANs) and reinforcement learning, offering readers a glimpse into the forefront of deep learning research.

The author's writing style is accessible and engaging, making complex topics digestible for readers with diverse backgrounds. Furthermore, the inclusion of Python code snippets and practical examples enhances the book's utility, enabling readers to experiment with deep learning algorithms and deepen their understanding through hands-on experience.

In short, "Deep Learning Concepts and Architectures" is a valuable resource that equips readers with a solid foundation in deep learning principles and techniques.

BOOK REVIEW

HEAD FIRST DESIGN PATTERNS

BY ERIC FREEMAN & ELISABETH ROBSON

"Head First Design Patterns" by Freeman, E. offers an engaging and highly effective approach to learning design patterns. Its unique teaching style sets "Head First Design Patterns" apart.

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The authors employ a visually rich and interactive format that makes learning fun and accessible. Through colourful illustrations, humorous anecdotes, and hands-on exercises, they break down complex concepts into smaller divisions, ensuring that readers understand the material and retain it.

One of the book's greatest strengths is its focus on real-world examples. The authors demonstrate how design patterns are used in popular software applications, giving readers a clear understanding of their practical implications. By connecting theory to practice, "Head First Design Patterns" makes it easier for readers to apply what they've learned to their projects.

Moreover, the book covers various design patterns, including creational, structural, and behavioural patterns. Each pattern is explained in detail, clearly defining its purpose, structure, and implementation. The authors also highlight common pitfalls and best practices, equipping readers with the knowledge to make informed design decisions.

In addition to its comprehensive coverage of design patterns, "Head First Design Patterns" emphasises object-oriented design principles' importance. By reinforcing fundamental concepts such as encapsulation, inheritance, and polymorphism, the book lays a solid foundation for understanding advanced design patterns.

Overall, "Head First Design Patterns" is a must-read for anyone interested in software design and architecture. Whether you're a novice programmer or an experienced developer looking to deepen an understanding of design patterns, this book has something to offer. This is a must-read book for anyone looking to take their software design skills to the next level.

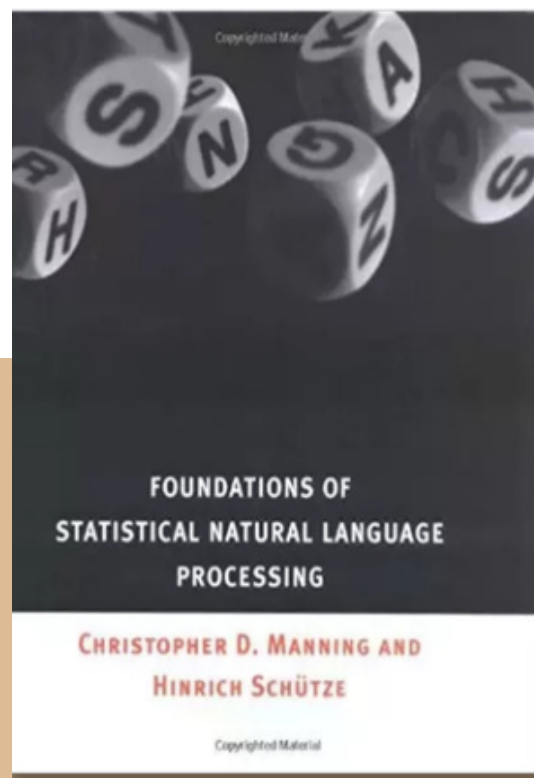
BOOK REVIEW

FOUNDATIONS OF STATISTICAL NATURAL LANGUAGE PROCESSING

BY CHRISTOPHER MANNING &
HINRICH SCHUTZE

"Foundations of Statistical Natural Language Processing" by Christopher D. Manning and Hinrich Schuetze is a seminal work in natural language processing (NLP) that comprehensively explores the statistical methods underpinning language understanding and generation.

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The book begins by laying a solid groundwork in linguistic theory and computational linguistics, providing readers with the necessary background to delve into statistical approaches to NLP. The authors then seamlessly transition into the core statistical techniques, including probabilistic models, n-gram language models, and part-of-speech tagging. Each concept is clear and precise, accompanied by relevant examples and practical applications. One of the book's key strengths is its emphasis on integrating linguistic knowledge with statistical methods. By marrying linguistic insights with probabilistic modelling, the authors offer readers a holistic understanding of language structure and its computational treatment. This book contains NLP tasks, from syntactic parsing to semantic analysis, providing readers with a comprehensive toolkit for addressing diverse language processing challenges.

The authors' pedagogical approach is commendable, as they balance theoretical exposition with practical implementation. The inclusion of algorithmic details and code snippets facilitates understanding and encourages readers to experiment with NLP techniques using readily available tools and resources. However, given the rapid advancements in NLP since the book's publication, some readers may find certain sections outdated or lacking coverage of more recent developments, such as deep learning approaches. Nevertheless, "Foundations of Statistical Natural Language Processing" remains an indispensable resource for students, researchers, and practitioners seeking a rigorous foundation in statistical methods for NLP. The book is a landmark text that continues to shape the field of NLP, offering timeless insights into the intersection of linguistics, statistics, and computation. Whether used as a textbook or reference guide, this book is a valuable resource for anyone interested in unlocking the mysteries of human language through statistical analysis and modelling.

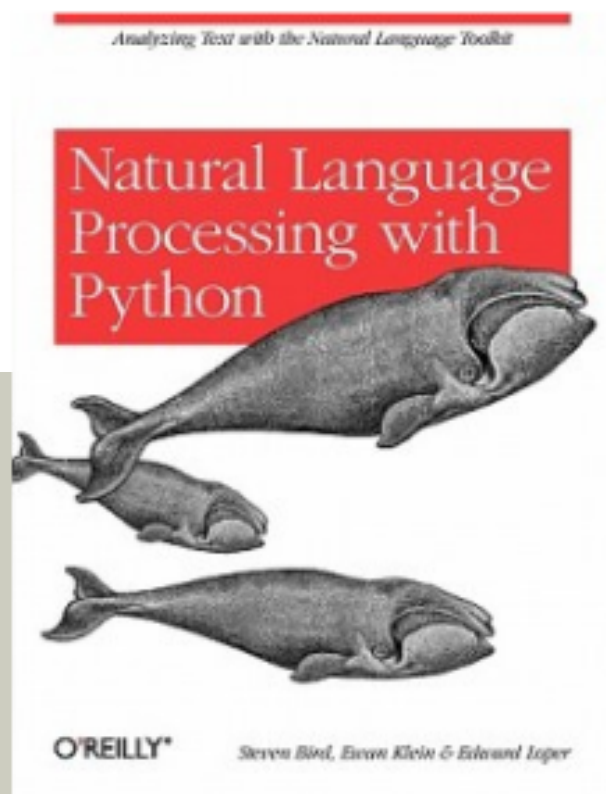
BOOK REVIEW

NATURAL LANGUAGE PROCESSING WITH PYTHON

BY STEVEN BIRD & EWAN KLEIN

"Natural Language Processing with Python", authored by Steven Bird, Ewan Klein, and Edward Loper, is a crucial resource for anyone interested in delving into the fascinating field of natural language processing (NLP) using the Python programming language.

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The book is a comprehensive introduction to NLP, catering to novice learners and experienced practitioners. It covers various topics, from linguistic analysis and text processing basics to advanced techniques such as machine learning for NLP tasks. Each chapter is structured to gradually build upon previous concepts, ensuring a smooth learning curve for readers.

One of the book's standout features is its hands-on approach to learning. The authors provide numerous practical examples and exercises throughout the text, accompanied by Python code snippets demonstrating how to implement NLP techniques. This interactive approach reinforces theoretical concepts and equips readers with the skills to tackle real-world NLP challenges. Moreover, the book emphasizes the importance of open-source tools and resources in NLP research and development. The authors extensively utilize popular Python libraries such as NLTK (Natural Language Toolkit) and spaCy, empowering readers to leverage these tools for their NLP projects. Additionally, the inclusion of case studies and practical applications further enhances the book's relevance and applicability.

While the book excels in its coverage of foundational NLP concepts and techniques, some readers may need more depth, particularly advanced machine learning algorithms and deep learning approaches. Nevertheless, "Natural Language Processing with Python" remains invaluable for anyone seeking a solid foundation in NLP using Python. This book is a must-read for aspiring NLP practitioners, offering a well-rounded introduction to the field and practical guidance on implementing NLP solutions using Python. This book will encourage readers to explore the endless possibilities of natural language processing.

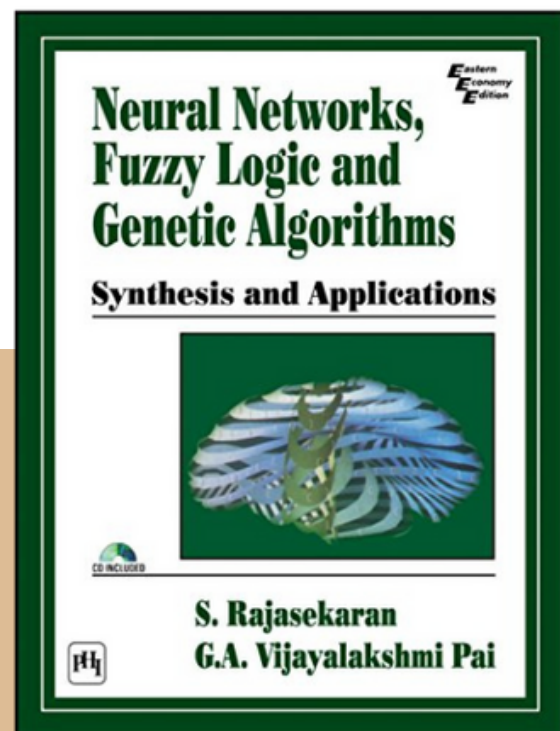
BOOK REVIEW

NEURAL NETWORKS, FUZZY LOGIC AND GENETIC ALGORITHMS: SYNTHESIS AND APPLICATIONS

BY S. RAJASEKARAN & G.
A. VIJAYALAKSHAMI PAI

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"Neural Networks, Fuzzy Logic, and Genetic Algorithms: Synthesis and Applications" by S. Rajasekaran is a comprehensive guide exploring three powerful computational paradigms: neural networks, fuzzy logic, and genetic algorithms.

The book provides a solid foundation in each paradigm, covering fundamental principles, architectures, and mathematical frameworks. The author integrates theoretical concepts with practical applications, elucidating complex constructs with illustrative examples and case studies across diverse domains.

Moreover, the book explores hybrid approaches, showcasing how these paradigms can be combined to tackle complex problems effectively. The author's accessible writing style caters to readers of varying expertise levels.

In conclusion, "Neural Networks, Fuzzy Logic, and Genetic Algorithms: Synthesis and Applications" offers a comprehensive and insightful exploration of computational paradigms. It's thorough coverage and practical examples make it an indispensable resource for anyone interested in artificial intelligence and computational intelligence.

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ताकत का नया स्रोत कुछ लोगों के हाथ में धन होना नहीं है, बल्कि कई लोगों के हाथ में पुस्तकों का होना है।

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