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Quantum Computing & Techniques (Theory & Practice)

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Product Description

QUANTUM COMPUTING & TECHNIQUES (THEORY & PRACTICE) 1. A Valuable Resource: This well-regarded book is full of important information and is praised in the field of Quantum Computing. 2. Fun Learning: The book makes complex topics enjoyable, helping readers learn in a joyful way. 3. Bridging the Knowledge Gap: It helps readers go from not knowing much about Quantum Computing to understanding it well, breaking down difficult ideas. 4. Clear Understanding: It removes confusion and shines light on the topic, giving reader's confidence in what they learn. 5. Simple and Clear: Despite its complex topic, the book is easy to understand and straightforward. 6. Course Friendly: The content is designed to match the study programs of many universities in India and beyond. 7. Thorough and Detailed: The book explains topics thoroughly, making sure everything is easy to grasp. 8. Curriculum- Aligned: It is aimed at B.E. /B. Tech. students in fields like Computer Science, IT, Electronic engineering, and more. 9. Research Gateway: This book is useful for students, teachers, and researchers opening doors for new ideas in quantum computing. 10. Assessment Tools: Each chapter includes multiple- choice questions with answers, as well as short questions and exercises that match current exam patterns. 11. Illustrative Approach: The book has many examples to help readers apply what they learn in practical labs. 12. Hands-On Learning: All lab exercises are tested with the IBM Qiskit Toolkit, ensuring they work well in Practice. 13. Fueling Intellectual Curiosity: This book sparks interest in those wanting to become quantum engineers, deepening their understanding of Quantum Technologies. Dive into the exciting world of quantum computing, where complex ideas become clear, and curiosity leads to deep understanding!

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Chapter 1: Quantum Computing and its Components. Chapter 2: Math Foundation for Quantum Computing.
Chapter 3: Quantum Circuits Design. Chapter 4: Quantum Algorithms. Chapter 5: Computational Lower Bound
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Appendix: Experiments in Quantum Computing Lab. (using Python). Index



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Dr. Rajiv Chopra has a Doctorate in Computer Science from Banasthali Vidyapith University. The author is M. Tech. in Information Technology from GGSIPU, Delhi. He did BE (CSE) from SDM College of Engg. and Technology, Dharwad and MIT from MAHE. He is working as an Associate Professor in CSE Department at Guru Tegh Bahadur Institute of Information Technology, GGSIPU Delhi. As an educator he has contributed to 21 research publications in Refereed, cited International Conferences and International Journals and attended 21 conferences, workshops, FDPs and seminars. He is a prolific author with 26 Text and Reference books to his credit, for B. Tech. (CSE/IT), M. Tech. (CSE/IT), BCA, MCA and other courses of different Universities of India.



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Machine Learning And Machine Intelligence

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Product Description

Machine learning and Machine Intelligence is a complete book to read and perform practical in computer labs. Just reading theory cannot make you perform the practical(S). The present book is the composition of both, for the convenience of the students. Many of the Degrees or Diplomas or Certification Programs are being conducted in Machine Learning and Machine Intelligence fields. But it has become difficult for software companies to separate chaff from the grain. This book is an excellent guide for aspiring Data Science professionals and a valuable resource bank to perform experiments in AIDS and AIML branches. Salient Feature: 1. Includes numerous illustrative examples to understand and perform the practical easily. 2. Demonstrates every experiment in a systematic and good programming style. 3. Students of all branches- B.E/ B. Tech. in CSE/IT/ECE, B. Tech. in AIML Branch, B. Tech. In AIDS Branches as well as B. Tech in CS (DS) and CS (ML) branches will be benefitted from this art.



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Data Science With Artificial Intelligence, Machine Learning and Deep Learning



Data Science with Artificial Intelligence, Machine Learning and Deep Learning

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Product Description

The Present book takes a student from "unknown to known" and " simple to complex" principles of Data Science. This book is user-friendly, thought provoking and stimulating. It helps in clearing the cobwebs of the mind and the subject. The style used is lucid and un-adulterated. What stands out is the stark simplicity with which the ideas have been portrayed. A good book should teach the customary and effective ways to structure your code in such a way that data engineering is not havoc. Python is an object-oriented programming language that is used in this book . The book is divided in to 4 Units:- Unit-1 has 15 chapters on Artificial Intelligence. Unit-2 has 7 chapters that explain Machine Learning and IOT. Unit-3 has 10 chapters each focusing on DEEP Learning. Unit-4 has 1 chapter that explain Data Sciences.



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Unit I : Artificial Intelligence Chapter 1: Introduction to Al. Chapter 2: Intelligent Agents. Chapter 3: Al
Approaches. Chapter 4: Uninformed Search Strategies. Chapter 5: Informed Search. Chapter 6: Games Solving.
Chapter 7: Constraint Satisfaction Problems. Chapter 8: Knowledge Representation. Chapter 9: Al Retrospectives.
Chapter 10: Representation Knowledge. Chapter 11: Planning & Learning. Chapter 12: Uncertain Knowledge &
Reasoning. Chapter 13: NLP. Chapter 14: Expert Systems. Chapter 15: ANNS. Unit-II:- Machine Learning
Chapter 16: Introduction to ML. Chapter 17: Types of Learning. Chapter 18: Classification Families. Chapter 19:
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Learning and Control. Chapter 22: LOT and ML. UNIT III:- Deep Learning Chapter 23: The Neural Network (DL).
Chapter 24: Machine Learning Retrospective. Chapter 25: Deep feed forward Networks. Chapter 26: Deep
Learning Optimization. Chapter 27: CNNs. Chapter 28: Sequence Analysis. Chapter 29: Practical Deep Learning.
Chapter 30: Applications of Deep Learning. Chapter 31: Deep Learning Survey Roses are Red, Violets are Blue,
Deep Learning Can Recognize Objects for you. UNIT IV: Data Science Chapter 31: Data Science. Glossary Model
Question Papers References

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Dr. Rajiv Chopra has a Doctorate in Computer Science from Banasthali Vidyapith University. The author is M. Tech. in Information Technology from GGSIPU, Delhi. He did BE (CSE) from SDM College of Engg. and Technology, Dharwad and MIT from MAHE. He is working as an Associate Professor in CSE Department at Guru Tegh Bahadur Institute of Information Technology, GGSIPU Delhi. As an educator he has contributed to 21 research publications in Refereed, cited International Conferences and International Journals and attended 21 conferences, workshops, FDPs and seminars. He is a prolific author with 26 Text and Reference books to his credit, for B. Tech. (CSE/IT), M. Tech. (CSE/IT), BCA, MCA and other courses of different Universities of India.



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Reality



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Virtual and Augmented

Product Description

Tapping the full power of virtual and augmented reality need not be very difficult. This book on Virtual and Augmented Reality is written according to the students who have learned computer graphics and multimedia but want to take their skills to the next level. VR and AR book demonstrates techniques that allow you to analyze how virtual reality is covering almost all aspects of our life. the increasing penetration of VR and AR gives rise to some new strategic queries. Using VR, many companies have satisfied their customers to 95% World giants like GE, Mayo Clinic and the US Navy, are using VR and AR to improve productivity, quality and training. By concatenating the benefits of humans and machines, AR will dramatically increase the value creation.



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Chapter 1: Introduction to Virtual Reality.
Chapter 2: Geometric Modelling.
Chapter 3: Virtual Environment.
Chapter 4: VR Hardware and Software.
Chapter 5: VR Application.
Appendix : Deep Learning with Virtual Reality.
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Machine Learning

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Product Description

This book attempts to provide a unified overview of the broad field of Machine Learning and its Practical implementation. This book is a survey of the state of art. It breaks this massive subject into comprehensible parts piece by piece. The objective is to focus on basic principles of machine learning with some leading edge topics. This book addresses a full spectrum of machine learning programming. The emphasis is to solve lot many programming examples using step-by step practical implementation of machine learning algorithms. To facilitate easy understanding of machine learning, this book has been written in such a simple style that a student thinks as if a teacher is sitting behind him and guiding him.

This book is written as per the new syllabus of different Universities of India. It also Cover the syllabus of B.Tech.(CSE/IT), MCA, BCA of Delhi University, Delhi. GGSIPU, MDU, RGTU, Nagpur University, UTU, APJ Abdul Kalam



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Chapter 1: Introduction to Machine Learning and Deep Learning. Chapter 2: Types of Learning.

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Chapter 8: Project-1: Object Detection and Smudging Using Gradient Descent. Chapter 9:
Project-2: Spam Filtering based on Text Classification Using Machine Learning Algorithms.
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Dr. Rajiv Chopra has a Doctorate in Computer Science from Banasthali Vidyapith University. The author is M. Tech. in Information Technology from GGSIPU, Delhi. He did BE (CSE) from SDM College of Engg. and Technology, Dharwad and MIT from MAHE. He is working as an Associate Professor in CSE Department at Guru Tegh Bahadur Institute of Information Technology, GGSIPU Delhi. As an educator he has contributed to 21 research publications in Refereed, cited International Conferences and International Journals and attended 21 conferences, workshops, FDPs and seminars. He is a prolific author with 26 Text and Reference books to his credit, for B. Tech. (CSE/IT), M. Tech. (CSE/IT), BCA, MCA and other courses of different Universities of India.



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Deep Learning

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Product Description

A good book is like a teacher who sits behind the reader and guides him/her accordingly. Deep Learning has been an area of current research. After toiling through the various concepts of Deep Learning, the book slithers around all principles of deep learning. This book highlights in deep the concepts of deep learning so that new projects and researchers can be done. The book serves, both as textbook and as a reference book .Some of the highlights of the book are: Simple Language, Recent Concepts of Machine and Deep Learning explained, MCQ's, Conceptual Short Questions & Answers, Case Studies, Case Tools (like Tensor Flow, H2O etc.)



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Chapter 1: The Neural Network (Deep Learning). Chapter 2: Machine Learning Retrospective. Chapter 3: Deep Feedforward Networks. Chapter 4: Deep Learning Optimization. Chapter 5: Convolutional Neural Networks.
Chapter 6: Sequence Analysis. Chapter 7: Practical Deep Learning. Chapter 8: Applications of Deep Learning.
Chapter 9: Deep Learning Survey. Appendix A : Glossary. Appendix B : Model Question Papers. Project 1: Training ANN & Acoustic Cryptography of Computer Keyboard. Project 2: Cryptography Using ANNs. References Index

Author

Dr. Rajiv Chopra has a Doctorate in Computer Science from Banasthali Vidyapith University. The author is M. Tech. in Information Technology from GGSIPU, Delhi. He did BE (CSE) from SDM College of Engg. and Technology, Dharwad and MIT from MAHE. He is working as an Associate Professor in CSE Department at Guru Tegh Bahadur Institute of Information Technology, GGSIPU Delhi. As an educator he has contributed to 21 research publications in Refereed, cited International Conferences and International Journals and attended 21 conferences, workshops, FDPs and seminars. He is a prolific author with 26 Text and Reference books to his credit, for B. Tech. (CSE/IT), M. Tech. (CSE/IT), BCA, MCA and other courses of different Universities of India.



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