

## Data Structures & Algorithms (Knowledge Enhancement Program)

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## Product Description

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My Book of Data Structures and Algorithms in a comprehensive and learner-friendly guide crafted for students, professionals, and aspirants preparing for GATE, competitive coding, and IT interviews. It serves as both an academic companion and a practical reference manual for mastering the foundational and advanced concepts of data structures and algorithm design. Rooted in real-world problem-solving, the book seamlessly blends theoretical clarity with hands-on implementation across languages like C, C++, Java and Python. Designed in alignment with university syllabi and modern industry requirements, this book is ideal for readers at all levels- from engineering undergraduates to working professionals aiming to sharpen their algorithmic thinking. KEY FEATURES OF THE BOOK

- Complete and Structured Coverage
- Concept-Building through Intuition and Examples
- Programming Language Support
- GATE, Coding Interviews & Competitive Programming Ready
- Problem-Solving and Hands-On Practice
- Core Topics Covered in Detail
- Time and Space Complexity Focused
- Visual Learning Aids
- Latest and Trending Concepts
- Academic and Industry Alignment
- Chapter – End Revision Boosters

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## Table of Contents

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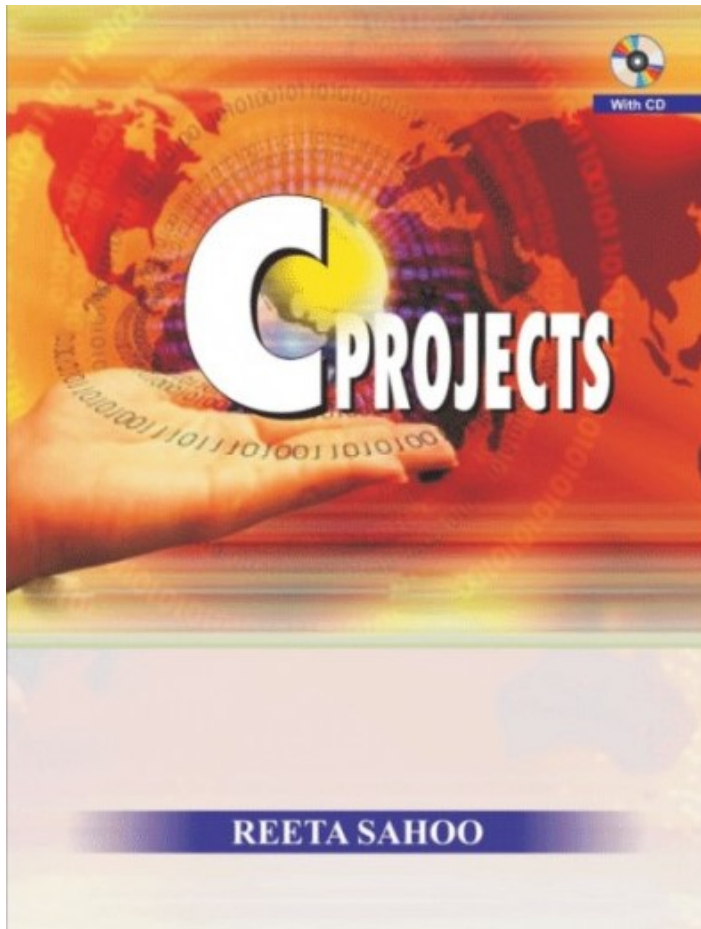
1. SORTING
2. SEARCHING & HASHING
3. LINKED LIST
4. STACK
5. QUEUE
6. GRAPH
7. TREE AND TRIES



## Author

Dr. Munesh Chandra Trivedi Dr. Munesh Chandra Trivedi has more than 20 years of experience in the field of computer science & Engineering and has worked in Prestigious Institutions. He has more than 10 years' experience in various administrative responsibilities e.g., Dean (academics), Head of Department, TEQIP-111 Coordinator, PG coordinator, EDC cell Coordinator. Currently working Tripura, India, and Associate Professor and HoD (IT), Rajkiya Engineering College, Azamgarh, up (state Govt Institution of UP) with the additional responsibility of Dean Academics of the institute & Associate Dean UG Programs, Dr. APJ Abdul Kalam Technical University, Lucknow (State Technical University). He was also the Director (In-charge) at Rajkiya Engineering College, Azamgarh. He had successfully filed 81 patents (65 National and 16 International Patents (Germany, South Africa, and Australia)), out of which 40 patents were granted. He has published 12 textbooks and 168 research papers in different International Journals and proceedings of repute. He has also edited 38 books for springer Nature. He successfully supervised 14 PhD students and received numerous awards, including the Young scientist Visiting Fellowship, Albert Einstein Research scientist Award, Best senior Faculty Award, Outstanding Scientist, Dronacharya Award, Author of the Year, and vigyan Ratan award from different national, as well as international forums. He has organized more than 32 international conferences technically sponsored by IEEE, ACM, AND Springer. Dr. Harivans Pratap Singh Dr. Harivans Pratap Singh is a seasoned academician, technologist, and researcher with over 15 years of professional experience spanning academia and the IT industry. He holds a Ph.D. and M.Tech in computer Science and Engineering from Uttarakhand Technical University Dehradun U.K. India, and a B.Tech in Computer Science and Engineering from Uttar Pradesh Technical University Lucknow U.P. India. He has authored over 30 research papers, including 5 SCI-indexed and 12 Scopus-indexed publications, along with numerous conference papers and book chapters. A published author of 3 books and several technical contributions, Dr. Singh is also a recognized innovator with 20 patents—10 granted-across India, Germany, and South Africa. Dr. Singh has represented India as an expert guest speaker at various national and international forums, contributing his insights into software testing, automation, and digital transformation. He holds certifications in ISTQB and RPA Development (UiPath) and possesses deep technical expertise in playwright with JavaScript, Selenium, Postman, Rest Assured, CI/CD pipelines, Appium, Azure, AWS, and other modern testing and development frameworks. His programming strengths lie in Java and JavaScript, and he is well-versed in both Agile and DevOps practices. Dr. Singh has worked with globally recognized firms such as KPIT Technologies (Pune) and coforge Ltd (Greater Noida). He is currently serving as a Digital Architect and Automation Lead at Sonata Software, Bengaluru, India. His project and domain expertise spans E-commerce, Infotainment, Automotive, Ai/ML, Learning Management Systems, Travel, and Insurance. Blending academic insight with hands-on industry experience, Dr. Harivans Pratap Singh continues to make significant contributions to research, innovation, and enterprise solutions on a global scale.





## C Projects

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## Product Description

This book has total 13 chapters on different projects and two appendices. In all the chapters the project development idea has been discussed with individual project concerned. Also almost in every chapter there are some functions of graphics commands and operational knowledge is emphasized to make good demonstration to the projects. Whereas the graphics section are implemented in different functions only.

## Table of Contents

**Chapter 1:** Introduction. **Chapter 2:** Restaurant Billing System. **Chapter 3:** Electronic Voting System. **Chapter 4:** Banking System. **Chapter 5:** Pay Manager. **Chapter 6:** Library Management System. **Chapter 7:** Music Shop Management. **Chapter 8:** Year Calendar. **Chapter 9:** Drawing Logo. **Chapter 10:** Bricks Game. **Chapter 11:** Charts and Graphs. **Chapter 12:** Graphics Demo. **Chapter 13:** Utility Services.



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## Author

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**Reeta Sahoo** Reeta Sahoo The primary challenge of C++ project is to the development goals and objectives while adhering to logic and techniques usually scope, quality, time and budget. Reeta Sahoo is an author of various books including, C++, VB, Java. Since last 10 years, she has lots of experience in different computer project works. She has written number of schoolbooks including C++, Visual Basic, Java, etc. This book helps lots to the beginner's who want to develop programming skill in C++ language.

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