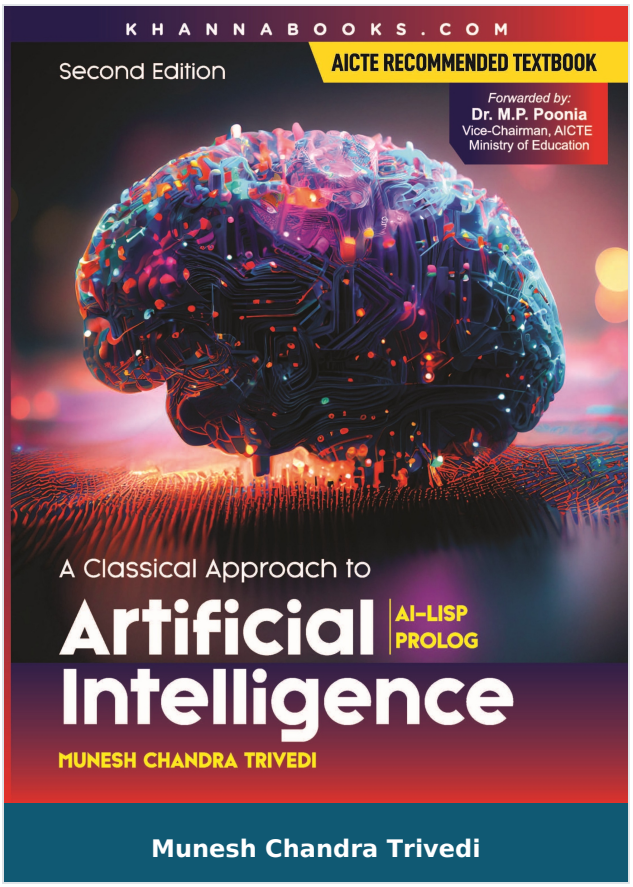



# A Classical Approach to Artificial Intelligence | AICTE Recommended Textbook

| | |
|---|---|
| **Author :** | Munesh Chandra Trivedi |
| **ISBN 13 :** | 978-81-90698-89-4 |
| **ISBN 10 :** | 8190698893 |
| **E-ISBN 13 :** | 978-81-90698-89-4 |
| **Edition :** | Second |
| **Pages :** | 540 |
| **Type of book :** | Physical |
| **Year :** | 2025 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 495.00 |
| **Categories :** | UNIVERSITY RECOMMENDED, Computer Science Engineering, Emerging Technologies, Book Store, Best Sellers |
| **Condition Type :** | New |
| **Country Origin :** | India |

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## Product Description

There are many books available in the market on the proposed topic but none of them can be termed as comprehensive. Besides, students face many problems in understanding the language of this books. Keeping these points in mind, Artificial Intelligence was prepared, which should be simple enough to comprehend and comprehensive enough to encompass all the topics of different institutions and universities.

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- Overview of Artificial Intelligence
- Problem Solving and Search
- Search Methods
- Problem Solving in Games (Adversarial Search)
- Understanding Natural Languages
- Knowledge Representation
- Techniques of Knowledge Representation
- Expert System
- Pattern Recognition
- Computer Vision
- Computer Vision Representations
- Common Sense
- Programming Languages


## Author

**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

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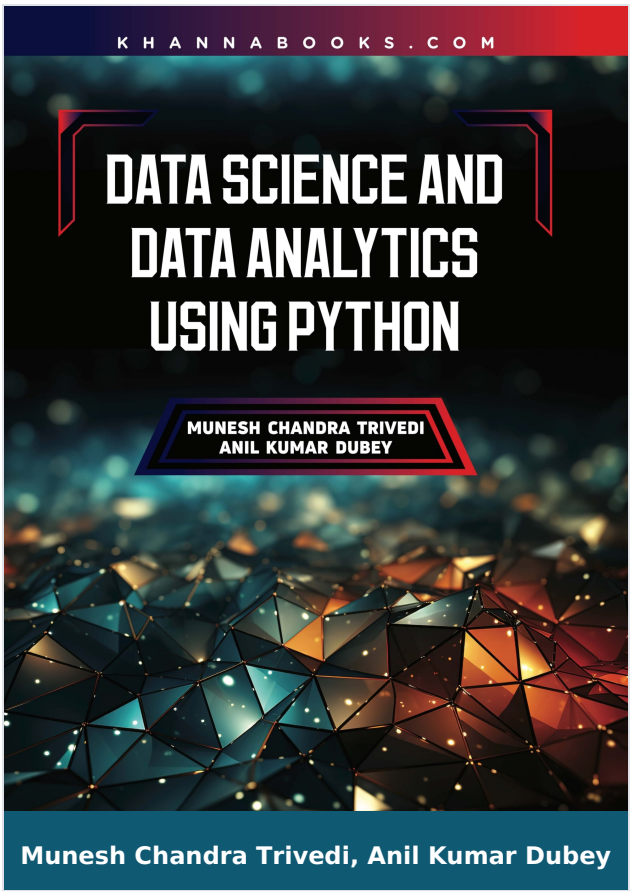
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University). He was also the Director (In-charge) at Rajkiya Engineering College, Azamgarh. He had successfully filed 81 patents (65 National and 16 International Patents (Germany, South Africa, and Australia)), out of which 40 patents were granted. 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.

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# Data Science and Data Analytics Using Python


| | |
|---|---|
| **Author :** | Munesh Chandra Trivedi, Anil Kumar Dubey |
| **ISBN 13 :** | 978-93-55384-26-3 |
| **ISBN 10 :** | 9355384262 |
| **E-ISBN 13 :** | 978-93-55384-26-3 |
| **Edition :** | 1 |
| **Pages :** | 296 |
| **Type of book :** | Physical |
| **Year :** | 2025 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 395.00 |
| **Categories :** | Emerging Technologies, Book Store |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

The book is a comprehensive guide that delves into the fundamentals of data science and analytics, leveraging, the python programming language. The covers key topics such as data manipulation, visualization, statistical analysis, and machine learning. It includes practical examples and code snippets to help readers understand and implement various data science techniques. Designed for both beginners and experienced practitioners, it provides a thorough understanding of how to use python for effective data analysis. The book also emphasizes real-world applications making it a valuable resource for those looking to apply data science skills in various domains.

SALIENT FEATLURES OF BOOK:

1. The textbook encompasses an extensive array of data science topics, including data pre-processing, visualization, statistical analysis, machine learning, with a pronounced emphasis on practical applications using python programming.

2. It integrates case studies derived from real-world scenarios alongside numerous exercises, facilitating hands-on practical experience.

3. The text provides details procedural guidance for implementing data science projects and explores various data visualization techniques utilizing libraries such as Matplotlib, Seaborne, and plotly.

4. It thoroughly examines a diverse range of machine learning algorithms and offers an introductory overview of deep learning concepts and frameworks, including Tensor flow, and Keras.

5. The textbook incorporates expert tips, bet practices, and focuses on high-demand skills, rendering it an invaluable resource for both novice and seasonal practitioners in the field of data science and analytics.

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- Introduction of Data Science.
- Python Programming.
- Numpy and Pandas Library.
- Scikit Learn and Scipy Library.
- Data Manipulation.
- Modeling Techinques.
- Data Visualization.
- Data Visualization.
- Pre Processing.
- Statistics of Data Analytics.
- Regression.
- Classification.


## Author

**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,

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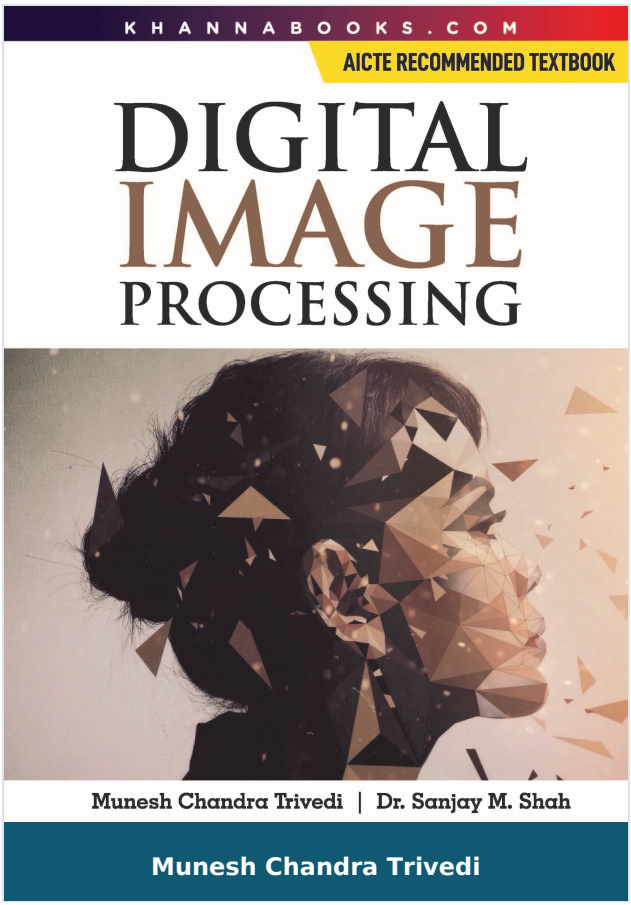
**Anil Kumar Dubey**

Munesh Chandra Trivedi Anil Kumar Dubey

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# Digital Image Processing

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|---|---|
| **Author :** | Munesh Chandra Trivedi |
| **ISBN 13 :** | 978-93-80016-15-3 |
| **ISBN 10 :** | 9380016158 |
| **E-ISBN 13 :** | 978-93-80016-15-3 |
| **Edition :** | 1 |
| **Pages :** | 408 |
| **Type of book :** | Physical |
| **Year :** | 2024 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 550.00 |
| **Categories :** | Computer Science Engineering, UNIVERSITY RECOMMENDED, Computer Science Engineering, Book Store |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

There are many books available in the market on the proposed topic but none of them can be termed as comprehensive, Besides, students face problem in understanding the language of the books, seeing these problems, it struck our mind that we should come up with a book in A Classroom approach of Digital Image processing, which should be simple enough to comprehend and comprehensive enough to encompass all the topics of different institutions and Universities.

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- Introduction to Image Processing
- Image Enhancement in Spatial Domain
- Image Enhancement in Frequency Domain
- Image Restoration
- Color Image Processing
- Morphological Image Processing
- Registration
- Image Segmentation
- Feature Extraction
- Object Recognition
- Image Coding and Compression
- Introduction to Matlab


## Author

**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,

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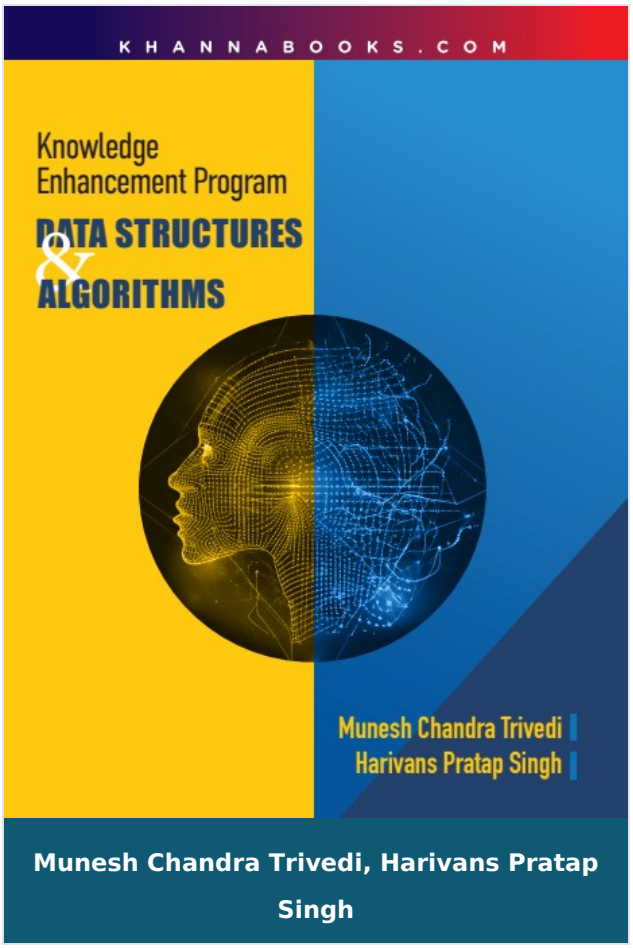
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# Data Structures & Algorithms (Knowledge Enhancement Program)

| | |
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| **Author :** | Munesh Chandra Trivedi, Harivans Pratap Singh |
| **ISBN 13 :** | 978-93-55385-18-5 |
| **ISBN 10 :** | 9355385188 |
| **E-ISBN 13 :** | 978-93-55385-18-5 |
| **Edition :** | 1 |
| **Pages :** | 660 |
| **Type of book :** | Physical |
| **Year :** | 2026 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 725.00 |
| **Categories :** | Computer Science Engineering, New Arrivals, Book Store |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

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
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- SORTING
- SEREACHING & HASHING
- LINKED LIST
- STACK
- QUEUE
- GRAPH
- TREE AND TRIES


## Author

**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

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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.

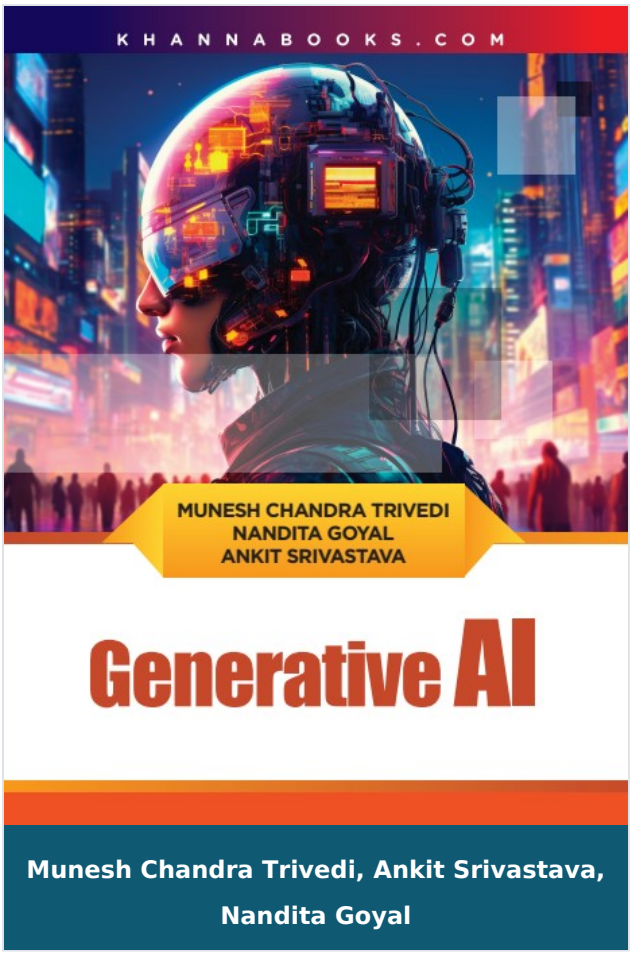
**Harivans Pratap Singh**

Dr. Harivans Pratap Singh continues to make significant contributions to research, innovation, and enterprise solutions on a global scale.

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# Generative AI

| | |
|---|---|
| **Author :** | Munesh Chandra Trivedi, Ankit Srivastava, Nandita Goyal |
| **ISBN 13 :** | 978-93-55386-39-7 |
| **ISBN 10 :** | 9355386397 |
| **E-ISBN 13 :** | 978-93-55386-39-7 |
| **Edition :** | 1 |
| **Pages :** | 312 |
| **Type of book :** | Physical |
| **Year :** | 2026 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 448.00 |
| **Categories :** | Computer Science Engineering, New Arrivals, Book Store |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

Generative AI: foundations, models, and Applications are a comprehensive guide that explores one of the most transformative areas of artificial intelligence—machines that create. This book offers an in-depth, yet accessible journey through the theoretical principles, algorithmic frameworks, and practical implementations that underpin generative models. Designed for students, researchers, and industry professionals alike, it bridges the gap between foundational understanding and real-world application.

The book begins with a concise introduction to machine learning and deep learning, establishing the mathematical and conceptual foundation required to understand generative models. It the systematically introduces key architectures such as variation autoencoders (VAEs), Generative adversarial Networks (GANs), autoregressive models, diffusion models, and large-scale transformer-based systems such as GPT and DALL-E.

Special attention is given to transformer architectures and multimodal generative models, which are reshaping fields such natural language processing, computer vision, digital art, and scientific discovery. Practical code examples and implementation guidance are provided using popular frameworks, empowering readers to build and experiment with their own models.

This book also examines the broader impact of generative AI--- from ethical considerations and safety challenges to the societal implications of machine- generated content. It encourages critical thinking about issues like deep fakes, misinformation, algorithmic bias, and intellectual property in the age of AI-Generated media.

Whether you are a student preparing for a career in AI, a software developer exploring new tools, or a researcher seeking a deeper understanding of generative technologies, this book serves as both a foundational text and a forward-looking reference. It combines clarity, depth, and practical relevance to help you master the art and science of

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Generative AI.

SALIENT FEATURES OF THE BOOK

- The language is simple and easily understandable.
- Includes hands-on approach for learning the subject.
- Explores a wide spectrum of generative architectures including variational autoencoders (VAEs), Generative adversarial Networks (GANs), Transformer-based models (e.g., GPT), Diffusion models, and multimodal systems.
- Provides mathematical details without losing the reader in complexity.
- Includes exercises and examples.
- Includes in-depth discussions on cutting-edge advancements such as attention mechanisms, transformer architectures, large language models (LLMs), prompt engineering, and fine-tuning techniques.
- Prepares readers not just to use today’s tools, but to adapt to tomorrow’s innovations---offering insights into emerging trends such as foundation models, generative agents, and open-ended creativity in AI.
- An application-centric view is highlighted to provide an understanding of the practical uses of each class of techniques.
- Greater focus is placed on modern deep learning ideas such as attention mechanisms, transformers, and pre-trained language models.

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- Generative Adversarial Network (GANs)
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- Applications of Generative AI
- Generative AI For Business and Society
- Ethics and Challenges in Generative AI
- Technical Deep Dive
- Future of g
- Generative AI
- Case Study
- References


## Author

**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

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**Ankit Srivastava**

Mr. Ankit Srivastava is a dedicated academic and researcher with over six years of teaching experience in various engineering colleges and the National Institute of Electronics and Information Technology (NIT), Agartala, Tripura, India. His research primarily focuses on medical imaging and image processing, with an emphasis on leveraging artificial intelligence to contribute to technological advancements in healthcare. Mr. Srivastava has published six research papers in reputed SCI-E and Scopus-Indexed Journal, as well as in several national and international conferences. He also holds three national patents and is the author of a book titled “Introduction to AI and Machine Learning.” His academic journey reflects a strong commitment to innovation, Knowledge dissemination, and research excellence in the field of artificial intelligence and its application in medical science.

**Nandita Goyal**

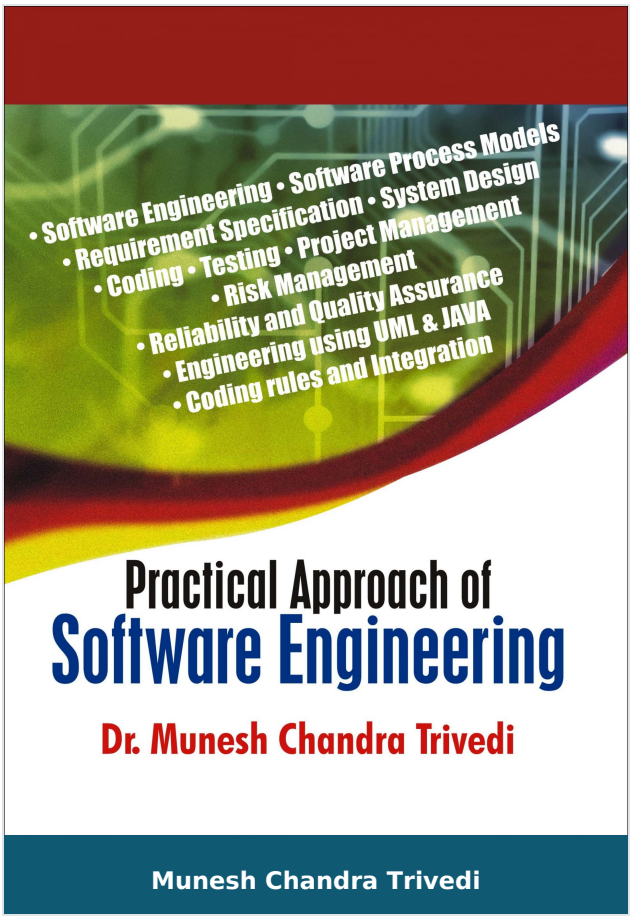
Dr. Nandita Goyal has more than 17 years’ experience in Teaching and Research. Her areas of interest are Cloud Computing, Deep learning and Neural Networks. She has published many research papers in different reputed International Journals and

Conferences.

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# Practical Approach of Software Engineering

| | |
|---|---|
| **Author :** | Munesh Chandra Trivedi |
| **ISBN 13 :** | 978-93-81068-14-4 |
| **ISBN 10 :** | 9381068143 |
| **E-ISBN 13 :** | 978-93-81068-14-4 |
| **Edition :** | 1 |
| **Pages :** | 292 |
| **Type of book :** | Physical |
| **Year :** | 2014 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 215.00 |
| **Categories :** | Computer Science Engineering, Book Store |
| **Condition Type :** | New |
| **Country Origin :** | India |

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## Product Description

There are many books available in the market on the proposed topic but none of them can be termed as comprehensive, Besides, students face problem in understanding the language of the books, seeing these problems, it struck our mind that we should come up with a book in practical approach of software Engineering, which should be simple enough to comprehend and comprehensive enough to encompass all the topics of different institutions and Universities. What are the courses/markets for which your book could serve as a reference. Master of computer application, B. Tech (C.S.), B. Tech(I.T.), Bachelor of computer application, B.Sc./M.Sc./ (C.S.), PGDBM/MBA(I.T.)

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- Software Process Models
- Software Requirement Specification
- System Design
- Coding
- Testing
- Software Project Management
- Software Risk Management
- Software Reliability and Quality Assurance
- Software Engineering using UML & JAVA
- Programming Standards: Coding rules and Integration
- Annexure
- Lab Manual Software Engineering : Question Bank
- Multiple Choice Questions
- Index
- Question Papers


## Author

**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),

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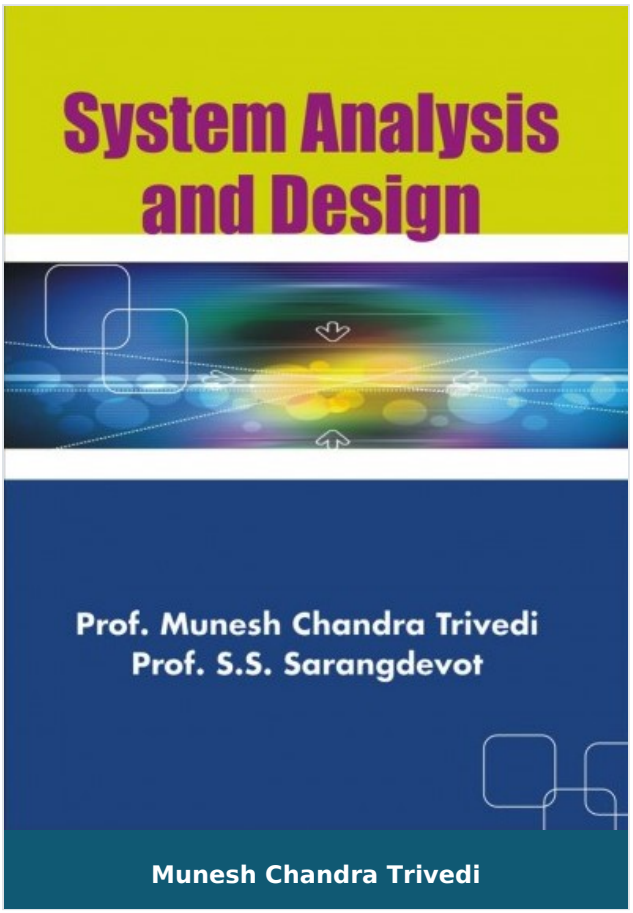
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# System Analysis and Design

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|---|---|
| **Author :** | Munesh Chandra Trivedi |
| **ISBN 13 :** | 978-93-80016-40-5 |
| **ISBN 10 :** | 9380016409 |
| **E-ISBN 13 :** | 978-93-80016-40-5 |
| **Edition :** | 1 |
| **Pages :** | 250 |
| **Type of book :** | Physical |
| **Year :** | 2014 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 195.00 |
| **Categories :** | Computer Science Engineering, Book Store |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

There are many books available in the market on the proposed topic but none of them can be termed as comprehensive, Besides, students face problem in understanding the language of the books, seeing these problems, it struck our mind that we should come up with a book in System Analysis and Design, which should be simple enough to comprehend and comprehensive enough to encompass all the topics of different institutions and universities.

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- Project Selection
- Feasibility Study
- System Requirement Specification and Analysis
- Modular Design and System Development
- Input Design and Control
- Output System Design
- Hardware and Software Selection
- Hardware and Software Selection
- Hardware and Software Selection
- System Analysis and Design Overview
- Organizational Issues


## Author

**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,

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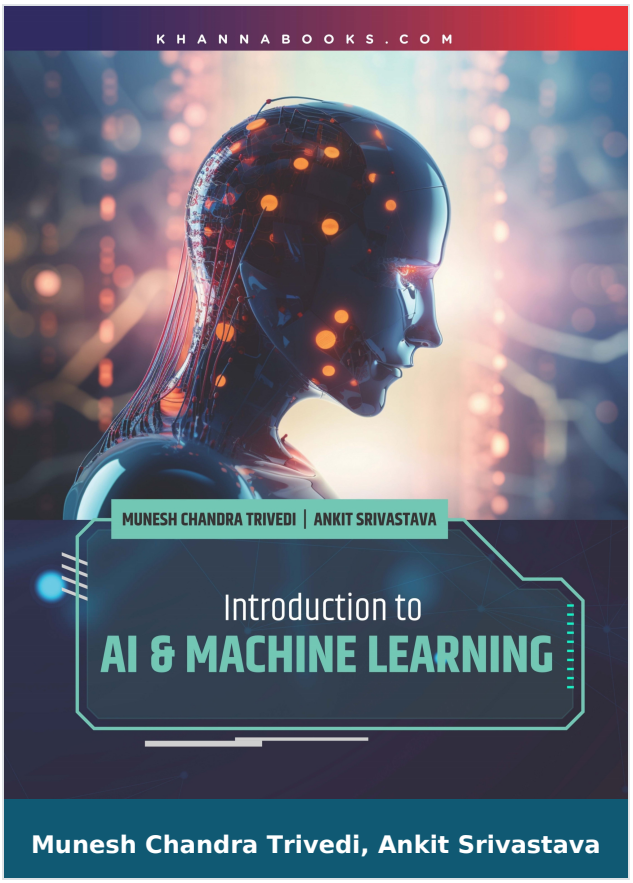
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Azamgarh. He had successfully filed 81 patents (65 National and 16 International Patents (Germany, South Africa, and Australia)), out of which 40 patents were granted. He has published 12 textbooks and 168 research papers in different International 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.

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# Introduction to AI & Machine Learning

| | |
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| **Author :** | Munesh Chandra Trivedi, Ankit Srivastava |
| **ISBN 13 :** | 978-93-55386-88-5 |
| **ISBN 10 :** | 9355386885 |
| **E-ISBN 13 :** | 978-93-55386-88-5 |
| **Edition :** | 1 |
| **Pages :** | 336 |
| **Type of book :** | Physical |
| **Year :** | 2025 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 495.00 |
| **Categories :** | Emerging Technologies, Book Store |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

INTRODUCTION TO AI & MACHINE LEARNING

“Introduction to AI and Machine Learning” is a comprehensive guide designed for readers who are new to the fields of artificial intelligence (AI) and machine learning (ML) The book aims to demystify these valuable insights for those with some foundation Knowledge.

This book is ideal for students and educators seeking a thorough introduction to AI and ML. By the end of the book, readers will have a solid understanding of the fundamental concepts of AI and ML and will be able to write basic AI and ML programs using python.

KEY FEATURES OF THE BOOK

1. Simple Language: Utilizes straightforward and easily understandable language throughout the text.

2. Engaging Learning Experience: Incorporates hands -on activities to enhance the learning experience.

3. Foundational Concepts: Introduces AI and ML, covering weak vs. strong AI, machine learning methods (supervised, unsupervised and reinforcement learning), and optimization techniques.

4. Search Algorithms: Discusses Problem- solving strategies such as BFS, DFS, and A*, with illustrations from examples like the water jug and 8- queen problems.

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- Artificial Intelligence.
- (Idea of Machine Learning).
- Linear Regression.
- (Logistic Regression).
- (Discussion on clustering).
- Question Bank


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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

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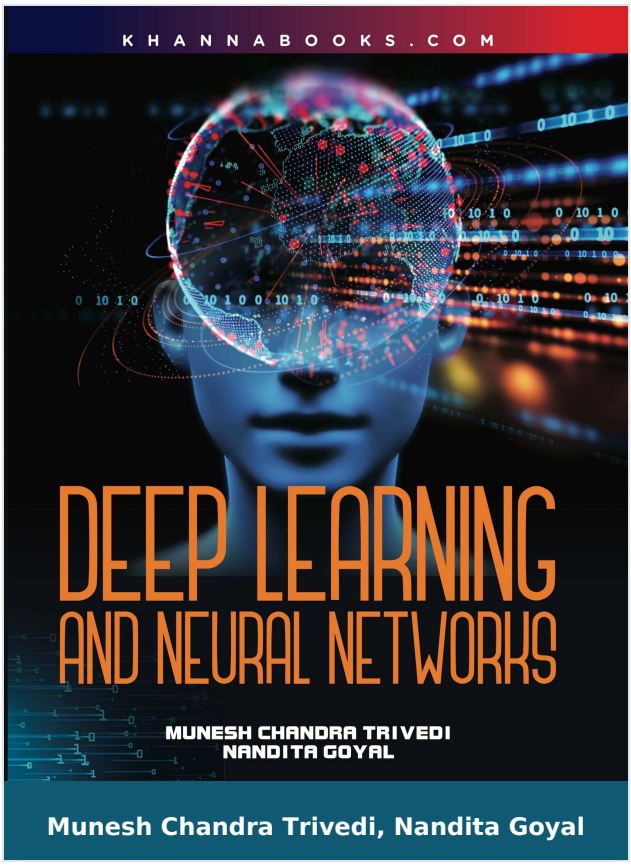
**Ankit Srivastava**

Mr. Ankit Srivastava is a dedicated academic and researcher with over six years of teaching experience in various engineering colleges and the National Institute of Electronics and Information Technology (NIT), Agartala, Tripura, India. His research primarily focuses on medical imaging and image processing, with an emphasis on leveraging artificial intelligence to contribute to technological advancements in healthcare. Mr. Srivastava has published six research papers in reputed SCI-E and Scopus-Indexed Journal, as well as in several national and international conferences. He also holds three national patents and is the author of a book titled “Introduction to AI and Machine Learning.” His academic journey reflects a strong commitment to innovation, Knowledge dissemination, and research excellence in the field of artificial intelligence and its application in medical science.

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# Deep Learning and Neural Networks

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| **Author :** | Munesh Chandra Trivedi, Nandita Goyal |
| **ISBN 13 :** | 978-93-55383-98-3 |
| **ISBN 10 :** | 9355383983 |
| **E-ISBN 13 :** | 978-93-55383-98-3 |
| **Edition :** | 1 |
| **Pages :** | 172 |
| **Type of book :** | Physical |
| **Year :** | 2025 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 298.00 |
| **Categories :** | Emerging Technologies, Book Store |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

The focus on the theory, algorithms, implementations and practical applications of deep learning and neural networks makes An Insight into Deep Learning and Neural Networks useful for students of Computer Science and mathematics. The book introduces neural networks starting with a quick tour of the very first ANN architectures, then covering topics such as training nets, recurrent neural networks, and reinforcement learning. Where possible, an application -centric view is highlighted to provide an understanding of the practical uses of each class of techniques.

Students of Computer Science and other related natural sciences will find it easy -to- read textbook, excellent for self -study, a high school level Knowledge of mathematics being the only pre-requisite to understand the material.

Salient Features of the Book:

1. The language is simple and easily understandable.
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3. Simple and intuitive discussions of neural networks and deep learning.
4. Provides mathematical details without losing the reader in complexity.
5. Include exercises and examples.
6. Discusses both traditional neural networks and recent deep learning models.
7. Covers both classical and modern models in deep learning.
8. An application-centric view is highlighted to provide an understanding of the practical uses of each class of techniques.
9. Greater focus is placed on modern deep learning ideas such as attention mechanisms, transformers, and pretrained language models.

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- Information Flow in a Neural Network, Understanding Basic Structure and ANN.
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- Convolution Neural Network, Image Classification and CNN.
- RNN and LSTMs, Applications of RNNs in Real World.
- Creating and Deploying Networks using Tensor Flow and Keras.


## Author

**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

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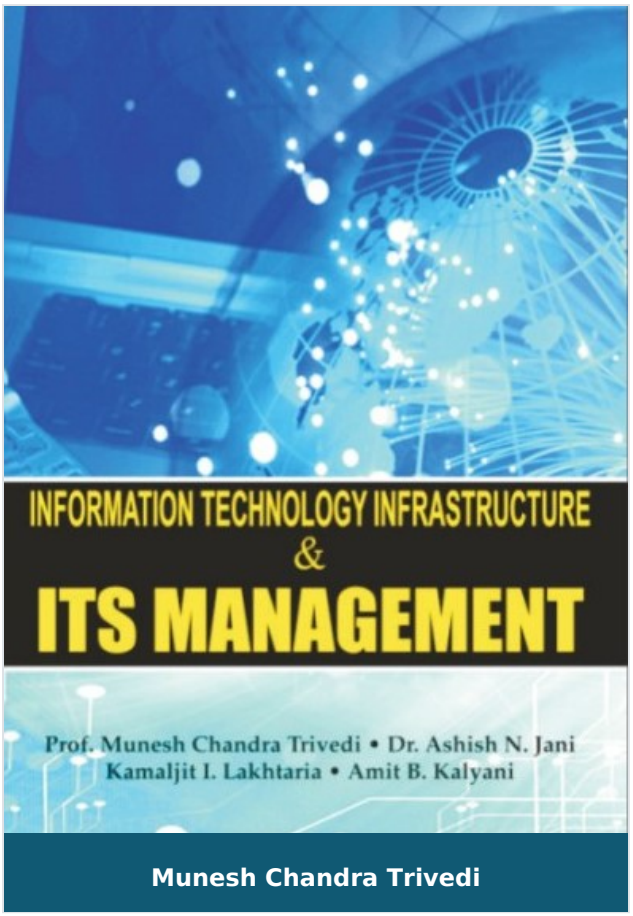
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Dr. Nandita Goyal has more than 17 years' experience in Teaching and Research. Her areas of interest are Cloud Computing, Deep learning and Neural Networks. She has published many research papers in different reputed International Journals and Conferences.

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# Information Technology Infrastructure & Its Management

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| **Author :** | Munesh Chandra Trivedi |
| **ISBN 13 :** | 978-93-80016-31-3 |
| **ISBN 10 :** | 938001631X |
| **E-ISBN 13 :** | 978-93-80016-31-3 |
| **Edition :** | 1 |
| **Pages :** | 292 |
| **Type of book :** | Physical |
| **Year :** | 2014 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 225.00 |
| **Categories :** | Computer Science Engineering, Book Store |
| **Condition Type :** | New |
| **Country Origin :** | India |

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- Legal Issues for E-Business
- Emerging Trends in IT


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