

# 4

# ARTIFICIAL INTELLIGENCE TECHNIQUES

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## Machine Learning

Machine Learning is a subset of AI that uses statistical methods to enable machines to learn from data. It involves creation of algorithms that can identify patterns, make predictions

## Machine Vision

Also known as computer vision, is a field of artificial intelligence that involves training machines to interpret and understand visual data from the world around us.



## Automation & Robotics

Automation is use of technology, such as software or machines, to perform tasks with minimal human intervention. Robotics is the field of engineering and technology that involves the design, construction, and operation of robots.

## Natural Language Processing

NLP is a subfield of AI that focuses on enabling machines to understand, interpret, and generate human language.



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# Advanced Methods For How To Ai Video Generator Tips

**Stephanie Diamond,Jeffrey Allan**

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GENERATIVE AI INNOVATIONS: Exploring Advanced Techniques and Applications in Modern AI DR. A. SEENU, DR. P. R. SUDHA RANI, **Artificial Intelligence All-in-One For Dummies** Chris Minnick, John Paul Mueller, Luca

Massaron, Stephanie Diamond, Pam Baker, Daniel Stanton, Shiv Singh, Paul Mladjenovic, Sheryl Lindsell-Roberts, Jeffrey Allan, 2025-07-01 A comprehensive roadmap to using AI in your career and in your life Artificial intelligence is everywhere Major software organizations like Microsoft, Google, and Apple have built AI directly into products and invited the world to become part of the AI revolution. And it's impossible to use these tools to their fullest potential without understanding the basics of what AI is and what it can do. *Artificial Intelligence All in One For Dummies* compiles insight from the expert authors of AI books in the For Dummies series to provide an easy to follow walkthrough for anyone interested in learning how to use AI. You'll learn how to put artificial intelligence to work for you and your company in a wide variety of situations from creating office assistants to managing projects and marketing your products. Inside the book, *How to prompt AI* platforms like ChatGPT and Copilot while avoiding hallucinations and other bugs. Strategies for adding artificial intelligence tools to your company's existing workflows to improve efficiency and generate new opportunities. Techniques to improve your programming capabilities with AI or create new AI powered tools. Perfect for professionals curious about the potential and pitfalls associated with generative artificial intelligence. *Artificial Intelligence All in One For Dummies* shows you exactly how AI works and how you can apply it in your own professional and personal life

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How Machine Learning is Innovating Today's World Arindam Dey, Sukanta Nayak, Ranjan Kumar, Sachi Nandan Mohanty, 2024-07-23 Provides a comprehensive understanding of the latest advancements and practical applications of machine learning techniques. Machine learning, ML, a branch of artificial intelligence, has gained tremendous momentum in recent years, revolutionizing the way we analyze data, make predictions, and

solve complex problems As researchers and practitioners in the field the editors of this book recognize the importance of disseminating knowledge and fostering collaboration to further advance this dynamic discipline How Machine Learning is Innovating Today's World is a timely book and presents a diverse collection of 25 chapters that delve into the remarkable ways that ML is transforming various fields and industries It provides a comprehensive understanding of the practical applications of ML techniques The wide range of topics include An analysis of various tokenization techniques and the sequence to sequence model in natural language processing explores the evaluation of English language readability using ML models a detailed study of text analysis for information retrieval through natural language processing the application of reinforcement learning approaches to supply chain management the performance analysis of converting algorithms to source code using natural language processing in Java presents an alternate approach to solving differential equations utilizing artificial neural networks with optimization techniques a comparative study of different techniques of text to SQL query conversion the classification of livestock diseases using ML algorithms ML in image enhancement techniques the efficient leader selection for inter cluster flying ad hoc networks a comprehensive survey of applications powered by GPT 3 and DALL-E recommender systems domain of application reviews mood detection emoji generation and classification using tokenization and CNN variations of the exam scheduling problem using graph coloring the intersection of software engineering and machine learning applications explores ML strategies for indeterminate information systems in complex bipolar neutrosophic environments ML applications in healthcare in battery management systems and the rise of AI generated news videos how to enhance resource management in precision farming through AI based irrigation optimization Audience The book will be extremely useful to professionals post graduate research scholars policymakers corporate managers and anyone with technical interests looking to understand how machine learning and artificial intelligence can benefit their work

**Advanced AI Methods for Plant Disease and Pest Recognition** Jucheng Yang, Yalin Wu, Alvaro Fuentes, Sook Yoon, Tonghai Liu, 2024-06-06 Plant diseases and pests cause significant losses to farmers and threaten food security worldwide Monitoring the growing conditions of crops and detecting plant diseases is critical for sustainable agriculture Traditionally crop inspection has been carried out by people with expert knowledge in the field However regarding any activity carried out by humans this activity is prone to errors leading to possible incorrect decisions Innovation is therefore an essential fact of modern agriculture In this context deep learning has played a key role in solving complicated applications with increasing accuracy over time and recent interest in this type of technology has prompted its potential application to address complex problems in agriculture such as plant disease and pest recognition Although substantial progress has been made in the area several challenges still remain especially those that limit systems to operate in real world scenarios

**Generative Artificial Intelligence in Healthcare** Rajendra Kumar, Shankar Ramamoorthy, Vishal Jain, Utku Köse, Ong Eng Tek, 2025-07-29 Generative artificial intelligence AI is a transformative force in smart healthcare It can produce contents

virtually indistinguishable from human created material with the power to redefine healthcare and revolutionize how medical science interacts with technology This book presents the potential applications and benefits of generative AI in healthcare and discusses its execution challenges and ethical aspects Generative Artificial Intelligence in Healthcare Current Practices and Future Development starts by reviewing the past and then discussing the present of generative AI based systems and the potential challenges the future might bring It then highlights the integration of generative AI with IoT and blockchain technologies along with offering case studies The book explores how to integrate augmented and virtual reality into generative AI based healthcare and covers the development of an effective machine algorithm for generative AI based healthcare as well as the design and implementation of generative adversarial networks GANs in healthcare systems Discussions about data security and ergonomic design for healthcare products are also included in the book This book will provide a platform for the past present and future of generative AI and will help researchers and healthcare practitioners generate more robust solutions

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