ARTIFICIAL INTELLIGENCE TECHNOLOGY

ARTIFICIAL INTELLIGENCE TECHNOLOGY HAS RAPIDLY EVOLVED OVER THE PAST DECADE, BECOMING A CORNERSTONE IN MODERN INNOVATION AND INDUSTRY TRANSFORMATION. THIS TECHNOLOGY ENCOMPASSES MACHINE LEARNING, NATURAL LANGUAGE PROCESSING, ROBOTICS, AND COMPUTER VISION, ALL AIMED AT ENABLING MACHINES TO PERFORM TASKS THAT TYPICALLY REQUIRE HUMAN INTELLIGENCE. AS BUSINESSES AND GOVERNMENTS INCREASINGLY ADOPT AI, ITS IMPACT SPANS HEALTHCARE, FINANCE, MANUFACTURING, AND MORE. UNDERSTANDING THE FUNDAMENTALS, APPLICATIONS, CHALLENGES, AND FUTURE TRENDS OF ARTIFICIAL INTELLIGENCE TECHNOLOGY IS ESSENTIAL FOR LEVERAGING ITS FULL POTENTIAL. THIS ARTICLE PROVIDES A COMPREHENSIVE OVERVIEW OF ARTIFICIAL INTELLIGENCE TECHNOLOGY, EXPLORING ITS CORE COMPONENTS, PRACTICAL USES, ETHICAL CONSIDERATIONS, AND EMERGING ADVANCEMENTS. THE FOLLOWING SECTIONS OUTLINE THE KEY AREAS COVERED IN THIS IN-DEPTH EXAMINATION.

- Understanding Artificial Intelligence Technology
- CORE COMPONENTS OF ARTIFICIAL INTELLIGENCE
- Applications of Artificial Intelligence Technology
- CHALLENGES AND ETHICAL CONSIDERATIONS
- FUTURE TRENDS IN ARTIFICIAL INTELLIGENCE TECHNOLOGY

UNDERSTANDING ARTIFICIAL INTELLIGENCE TECHNOLOGY

ARTIFICIAL INTELLIGENCE TECHNOLOGY REFERS TO THE DEVELOPMENT OF COMPUTER SYSTEMS CAPABLE OF PERFORMING TASKS THAT NORMALLY REQUIRE HUMAN COGNITION. THESE TASKS INCLUDE REASONING, LEARNING, PROBLEM-SOLVING, PERCEPTION, AND LANGUAGE UNDERSTANDING. All systems utilize algorithms and vast data sets to simulate intelligent behavior, enabling automation and decision-making processes. The evolution of AI is driven by advancements in computing power, data availability, and sophisticated algorithms, making it a vital technology across multiple sectors.

DEFINITION AND SCOPE

ARTIFICIAL INTELLIGENCE TECHNOLOGY BROADLY COVERS SYSTEMS DESIGNED TO MIMIC HUMAN INTELLIGENCE. THIS INCLUDES NARROW AI, WHICH IS SPECIALIZED IN SPECIFIC TASKS, AND GENERAL AI, WHICH AIMS TO PERFORM ANY INTELLECTUAL TASK A HUMAN CAN. CURRENT AI APPLICATIONS PREDOMINANTLY FALL UNDER NARROW AI, SUCH AS VOICE ASSISTANTS, RECOMMENDATION SYSTEMS, AND AUTONOMOUS VEHICLES. THE SCOPE OF AI IS CONTINUALLY EXPANDING AS RESEARCH DEEPENS AND NEW METHODOLOGIES EMERGE.

HISTORICAL DEVELOPMENT

The history of artificial intelligence technology dates back to the mid-20th century, with initial theoretical concepts introduced by pioneers like Alan Turing. Early AI focused on symbolic reasoning and rule-based systems but faced limitations due to computational constraints. The resurgence of AI in recent years is largely attributed to breakthroughs in Machine Learning, especially deep learning, which have enabled more complex and accurate models.

CORE COMPONENTS OF ARTIFICIAL INTELLIGENCE

ARTIFICIAL INTELLIGENCE TECHNOLOGY RELIES ON SEVERAL FUNDAMENTAL COMPONENTS THAT WORK TOGETHER TO ENABLE INTELLIGENT BEHAVIOR. THESE ELEMENTS INCLUDE MACHINE LEARNING ALGORITHMS, NATURAL LANGUAGE PROCESSING, COMPUTER VISION, AND ROBOTICS. EACH COMPONENT CONTRIBUTES UNIQUELY TO THE FIELD, ALLOWING AI SYSTEMS TO ANALYZE DATA, INTERPRET INFORMATION, AND INTERACT WITH THE ENVIRONMENT EFFECTIVELY.

MACHINE LEARNING

MACHINE LEARNING IS A SUBSET OF ARTIFICIAL INTELLIGENCE TECHNOLOGY THAT ENABLES COMPUTERS TO LEARN FROM DATA WITHOUT EXPLICIT PROGRAMMING. IT INVOLVES TRAINING ALGORITHMS ON LARGE DATASETS TO IDENTIFY PATTERNS AND MAKE PREDICTIONS OR DECISIONS. KEY MACHINE LEARNING APPROACHES INCLUDE SUPERVISED LEARNING, UNSUPERVISED LEARNING, AND REINFORCEMENT LEARNING, EACH SUITED FOR DIFFERENT TYPES OF PROBLEMS.

NATURAL LANGUAGE PROCESSING

NATURAL LANGUAGE PROCESSING (NLP) ENABLES AI SYSTEMS TO UNDERSTAND, INTERPRET, AND GENERATE HUMAN LANGUAGE. NLP TECHNOLOGIES POWER APPLICATIONS SUCH AS CHATBOTS, LANGUAGE TRANSLATION, SENTIMENT ANALYSIS, AND VOICE RECOGNITION. ADVANCES IN NLP HAVE IMPROVED HUMAN-COMPUTER INTERACTION BY MAKING COMMUNICATION MORE NATURAL AND INTUITIVE.

COMPUTER VISION

COMPUTER VISION IS A FIELD OF ARTIFICIAL INTELLIGENCE TECHNOLOGY FOCUSED ON ENABLING MACHINES TO INTERPRET AND ANALYZE VISUAL DATA FROM THE WORLD. THIS INCLUDES IMAGE AND VIDEO RECOGNITION, OBJECT DETECTION, AND FACIAL RECOGNITION. COMPUTER VISION APPLICATIONS ARE CRITICAL IN AREAS LIKE SURVEILLANCE, AUTONOMOUS VEHICLES, AND MEDICAL IMAGING.

ROBOTICS

ROBOTICS INTEGRATES ARTIFICIAL INTELLIGENCE TECHNOLOGY TO CREATE MACHINES CAPABLE OF PERFORMING PHYSICAL TASKS AUTONOMOUSLY OR SEMI-AUTONOMOUSLY. Al-powered robots are used in manufacturing, logistics, healthcare, and exploration, enhancing efficiency and precision. Robotics combines hardware and intelligent software to interact dynamically with their surroundings.

APPLICATIONS OF ARTIFICIAL INTELLIGENCE TECHNOLOGY

THE PRACTICAL APPLICATIONS OF ARTIFICIAL INTELLIGENCE TECHNOLOGY SPAN NUMEROUS INDUSTRIES, DRIVING INNOVATION AND OPERATIONAL IMPROVEMENTS. AT SYSTEMS OPTIMIZE PROCESSES, ENHANCE CUSTOMER EXPERIENCES, AND ENABLE NEW CAPABILITIES THAT WERE PREVIOUSLY UNATTAINABLE. THE FOLLOWING OUTLINES SOME OF THE MOST INFLUENTIAL APPLICATIONS ACROSS DIFFERENT SECTORS.

HEALTHCARE

ARTIFICIAL INTELLIGENCE TECHNOLOGY IN HEALTHCARE IMPROVES DIAGNOSTICS, TREATMENT PLANNING, AND PATIENT CARE.

MACHINE LEARNING MODELS ANALYZE MEDICAL IMAGES, PREDICT DISEASE PROGRESSION, AND PERSONALIZE THERAPIES. AT ALSO SUPPORTS DRUG DISCOVERY AND ADMINISTRATIVE AUTOMATION, REDUCING COSTS AND IMPROVING OUTCOMES.

FINANCE

In finance, AI enables fraud detection, algorithmic trading, credit scoring, and risk management. Financial institutions deploy AI-driven chatbots for customer service and use predictive analytics to forecast market trends. This technology enhances security and decision-making efficiency.

MANUFACTURING

MANUFACTURING BENEFITS FROM ARTIFICIAL INTELLIGENCE TECHNOLOGY THROUGH PREDICTIVE MAINTENANCE, QUALITY CONTROL, AND SUPPLY CHAIN OPTIMIZATION. AI-POWERED ROBOTS AUTOMATE ASSEMBLY LINES, WHILE DATA ANALYTICS IMPROVE PRODUCTION PLANNING AND RESOURCE ALLOCATION.

RETAIL AND E-COMMERCE

Al transforms retail by personalizing shopping experiences, managing inventory, and optimizing pricing strategies. Recommendation engines powered by machine learning increase customer engagement and sales. Chatbots and virtual assistants provide real-time support, enhancing customer satisfaction.

TRANSPORTATION

ARTIFICIAL INTELLIGENCE TECHNOLOGY DRIVES ADVANCEMENTS IN AUTONOMOUS VEHICLES, TRAFFIC MANAGEMENT, AND ROUTE OPTIMIZATION. AT SYSTEMS ANALYZE SENSOR DATA TO NAVIGATE COMPLEX ENVIRONMENTS, IMPROVING SAFETY AND EFFICIENCY IN TRANSPORTATION NETWORKS.

CHALLENGES AND ETHICAL CONSIDERATIONS

DESPITE THE NUMEROUS BENEFITS OF ARTIFICIAL INTELLIGENCE TECHNOLOGY, SEVERAL CHALLENGES AND ETHICAL CONCERNS MUST BE ADDRESSED. THESE INCLUDE DATA PRIVACY, ALGORITHMIC BIAS, JOB DISPLACEMENT, AND TRANSPARENCY. RESPONSIBLE Al DEVELOPMENT REQUIRES CAREFUL MANAGEMENT OF THESE ISSUES TO ENSURE FAIR AND BENEFICIAL OUTCOMES.

DATA PRIVACY AND SECURITY

All systems often require extensive data, raising concerns about user privacy and data protection. Ensuring secure data handling and compliance with regulations is critical to maintaining trust and safeguarding sensitive information.

ALGORITHMIC BIAS

BIAS IN AT ALGORITHMS CAN LEAD TO UNFAIR OR DISCRIMINATORY OUTCOMES, PARTICULARLY WHEN TRAINING DATA REFLECTS EXISTING SOCIETAL PREJUDICES. ADDRESSING BIAS INVOLVES IMPROVING DATA QUALITY, TRANSPARENCY, AND INCLUSIVITY IN AT DEVELOPMENT PROCESSES.

EMPLOYMENT IMPACT

THE AUTOMATION CAPABILITIES OF ARTIFICIAL INTELLIGENCE TECHNOLOGY CAN DISRUPT LABOR MARKETS BY REPLACING CERTAIN JOBS. WHILE AI CREATES NEW OPPORTUNITIES, WORKFORCE RESKILLING AND SOCIAL POLICIES ARE NECESSARY TO MITIGATE NEGATIVE EFFECTS.

TRANSPARENCY AND ACCOUNTABILITY

Al decision-making processes are often complex and opaque, making it difficult to understand how conclusions are reached. Promoting explainable Al and accountability is essential for ethical deployment and user confidence.

FUTURE TRENDS IN ARTIFICIAL INTELLIGENCE TECHNOLOGY

The future of artificial intelligence technology promises continued innovation and expansion into New Domains. Emerging trends include enhanced Al-Human collaboration, advances in explainable Al, and integration with other technologies such as blockchain and quantum computing.

Al and Human Collaboration

FUTURE AI SYSTEMS WILL INCREASINGLY AUGMENT HUMAN CAPABILITIES RATHER THAN REPLACE THEM. COLLABORATIVE AI AIMS TO SUPPORT DECISION-MAKING, CREATIVITY, AND COMPLEX PROBLEM-SOLVING ACROSS VARIOUS FIELDS.

EXPLAINABLE AT

EXPLAINABLE AI FOCUSES ON MAKING AI MODELS MORE TRANSPARENT AND UNDERSTANDABLE. THIS TREND ADDRESSES ETHICAL CONCERNS BY ENABLING USERS TO INTERPRET AND TRUST AI DECISIONS.

INTEGRATION WITH EMERGING TECHNOLOGIES

ARTIFICIAL INTELLIGENCE TECHNOLOGY IS CONVERGING WITH OTHER CUTTING-EDGE TECHNOLOGIES. FOR EXAMPLE, COMBINING AI WITH BLOCKCHAIN ENHANCES DATA SECURITY AND INTEGRITY, WHILE QUANTUM COMPUTING PROMISES TO EXPONENTIALLY INCREASE AI PROCESSING POWER.

Al IN EDGE COMPUTING

EDGE Al involves deploying artificial intelligence technology on local devices rather than centralized servers. This approach reduces latency, enhances privacy, and supports real-time applications in areas like autonomous vehicles and IoT devices.

- INCREASED PERSONALIZATION AND CONTEXT-AWARENESS
- ENHANCED NATURAL LANGUAGE UNDERSTANDING AND GENERATION
- GREATER EMPHASIS ON SUSTAINABILITY AND ENERGY EFFICIENCY

FREQUENTLY ASKED QUESTIONS

WHAT IS ARTIFICIAL INTELLIGENCE TECHNOLOGY?

ARTIFICIAL INTELLIGENCE TECHNOLOGY REFERS TO THE DEVELOPMENT OF COMPUTER SYSTEMS THAT CAN PERFORM TASKS

TYPICALLY REQUIRING HUMAN INTELLIGENCE, SUCH AS LEARNING, REASONING, PROBLEM-SOLVING, AND UNDERSTANDING NATURAL LANGUAGE.

HOW IS ARTIFICIAL INTELLIGENCE USED IN HEALTHCARE?

All is used in healthcare for diagnostics, personalized treatment plans, drug discovery, medical imaging analysis, and predicting patient outcomes, improving accuracy and efficiency in medical services.

WHAT ARE THE ETHICAL CONCERNS SURROUNDING ARTIFICIAL INTELLIGENCE?

ETHICAL CONCERNS INCLUDE DATA PRIVACY, ALGORITHMIC BIAS, JOB DISPLACEMENT, ACCOUNTABILITY FOR AI DECISIONS, AND ENSURING AI SYSTEMS ARE TRANSPARENT AND DO NOT PERPETUATE DISCRIMINATION.

HOW DOES MACHINE LEARNING RELATE TO ARTIFICIAL INTELLIGENCE?

MACHINE LEARNING IS A SUBSET OF ARTIFICIAL INTELLIGENCE THAT INVOLVES TRAINING ALGORITHMS ON DATA SO THEY CAN LEARN PATTERNS AND MAKE DECISIONS OR PREDICTIONS WITHOUT BEING EXPLICITLY PROGRAMMED FOR SPECIFIC TASKS.

WHAT INDUSTRIES ARE BEING TRANSFORMED BY ARTIFICIAL INTELLIGENCE TECHNOLOGY?

INDUSTRIES SUCH AS FINANCE, HEALTHCARE, AUTOMOTIVE, RETAIL, MANUFACTURING, AND CUSTOMER SERVICE ARE BEING TRANSFORMED BY AI THROUGH AUTOMATION, PREDICTIVE ANALYTICS, AND ENHANCED DECISION-MAKING.

WHAT IS THE DIFFERENCE BETWEEN NARROW AT AND GENERAL AT

NARROW All is designed to perform specific tasks, like voice recognition or recommendation systems, while general Alaims to perform any intellectual task a human can do, which remains largely theoretical at this stage.

HOW DOES ARTIFICIAL INTELLIGENCE IMPACT JOB MARKETS?

Al can automate repetitive tasks, leading to job displacement in some sectors, but also creates new opportunities in Al development, maintenance, and roles requiring human-Al collaboration.

WHAT ROLE DOES NATURAL LANGUAGE PROCESSING PLAY IN ATTECHNOLOGY?

NATURAL LANGUAGE PROCESSING (NLP) ENABLES AI SYSTEMS TO UNDERSTAND, INTERPRET, AND GENERATE HUMAN LANGUAGE, FACILITATING APPLICATIONS LIKE CHATBOTS, VIRTUAL ASSISTANTS, AND LANGUAGE TRANSLATION.

WHAT ADVANCEMENTS ARE DRIVING THE CURRENT GROWTH OF ARTIFICIAL INTELLIGENCE TECHNOLOGY?

ADVANCEMENTS IN COMPUTING POWER, BIG DATA AVAILABILITY, IMPROVED ALGORITHMS, AND CLOUD INFRASTRUCTURE ARE DRIVING THE RAPID GROWTH AND ADOPTION OF ATTECHNOLOGIES ACROSS VARIOUS FIELDS.

ADDITIONAL RESOURCES

1. ARTIFICIAL INTELLIGENCE: A MODERN APPROACH

THIS COMPREHENSIVE TEXTBOOK BY STUART RUSSELL AND PETER NORVIG IS WIDELY REGARDED AS THE DEFINITIVE GUIDE TO AL.

IT COVERS A BROAD SPECTRUM OF TOPICS INCLUDING MACHINE LEARNING, REASONING, ROBOTICS, AND NATURAL LANGUAGE
PROCESSING. IDEAL FOR BOTH STUDENTS AND PRACTITIONERS, THE BOOK COMBINES THEORETICAL FOUNDATIONS WITH
PRACTICAL APPLICATIONS.

AUTHORED BY IAN GOODFELLOW, YOSHUA BENGIO, AND AARON COURVILLE, THIS BOOK OFFERS AN IN-DEPTH EXPLORATION OF DEEP LEARNING TECHNIQUES. IT COVERS THE MATHEMATICAL AND CONCEPTUAL BACKGROUND NECESSARY TO UNDERSTAND NEURAL NETWORKS AND THEIR ARCHITECTURES. THE TEXT IS SUITABLE FOR RESEARCHERS AND ENGINEERS AIMING TO PUSH THE BOUNDARIES OF AI.

3. SUPERINTELLIGENCE: PATHS, DANGERS, STRATEGIES

NICK BOSTROM EXAMINES THE POTENTIAL FUTURE IMPACTS OF ARTIFICIAL INTELLIGENCE SURPASSING HUMAN INTELLIGENCE. THE BOOK DISCUSSES EXISTENTIAL RISKS AND ETHICAL CONSIDERATIONS SURROUNDING THE CREATION OF SUPERINTELLIGENT MACHINES. IT IS A THOUGHT-PROVOKING READ FOR ANYONE INTERESTED IN THE LONG-TERM IMPLICATIONS OF AI.

4. Machine Learning Yearning

Written by Andrew Ng, this book focuses on how to structure machine learning projects effectively. It provides practical advice on improving Al system performance and troubleshooting common issues. The content is accessible to both beginners and experienced Al practitioners.

5. HUMAN COMPATIBLE: ARTIFICIAL INTELLIGENCE AND THE PROBLEM OF CONTROL

STUART RUSSELL EXPLORES THE CHALLENGES OF ALIGNING AI SYSTEMS WITH HUMAN VALUES AND ENSURING THEIR SAFE DEPLOYMENT. THE BOOK DISCUSSES THE IMPORTANCE OF BUILDING AI THAT COLLABORATES WITH HUMANS RATHER THAN REPLACES THEM. IT OFFERS A BALANCED PERSPECTIVE ON THE FUTURE OF AI GOVERNANCE AND ETHICS.

6. LIFE 3.0: BEING HUMAN IN THE AGE OF ARTIFICIAL INTELLIGENCE

Max Tegmark delves into the future scenarios that AI development might bring about. Covering topics from Job automation to AI ethics, the book encourages readers to think critically about shaping AI's role in society. It blends scientific insight with philosophical questions about consciousness and identity.

7. PATTERN RECOGNITION AND MACHINE LEARNING

CHRISTOPHER BISHOP'S BOOK IS A FOUNDATIONAL TEXT FOR UNDERSTANDING STATISTICAL TECHNIQUES IN MACHINE LEARNING. IT COVERS TOPICS SUCH AS BAYESIAN NETWORKS, CLUSTERING, AND KERNEL METHODS. SUITABLE FOR GRADUATE STUDENTS AND RESEARCHERS, THE BOOK EMPHASIZES MATHEMATICAL RIGOR AND PRACTICAL ALGORITHMS.

- 8. THE MASTER ALGORITHM: HOW THE QUEST FOR THE ULTIMATE LEARNING MACHINE WILL REMAKE OUR WORLD PEDRO DOMINGOS PRESENTS A UNIFYING THEORY OF MACHINE LEARNING, PROPOSING THE EXISTENCE OF A "MASTER ALGORITHM" THAT CAN LEARN ANYTHING. THE BOOK EXPLAINS DIFFERENT MACHINE LEARNING PARADIGMS AND THEIR POTENTIAL IMPACT ON VARIOUS INDUSTRIES. IT IS WRITTEN FOR A BROAD AUDIENCE INTERESTED IN THE FUTURE OF AI.
- 9. Al Superpowers: China, Silicon Valley, and the New World Order
 Kai-Fu Lee provides an insider's perspective on the global Al race, focusing on China and the United States. The
 BOOK DISCUSSES TECHNOLOGICAL ADVANCEMENTS, ECONOMIC IMPLICATIONS, AND THE SOCIETAL TRANSFORMATIONS DRIVEN BY
 Al. IT also addresses the challenges of Job displacement and innovation competition.

Artificial Intelligence Technology

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artificial intelligence technology: <u>Artificial Intelligence</u> Christian Farsley, 2020-04-10 In this comprehensive guide, you'll learn the basics about: - The applications we have in AI. - How AI can be a threat and an opportunity. - The historical context of AI. - The effects AI can have on the future. - How AI is applied in marketing. - What big data and neural networks are. - Generation Z and the uses of AI. And a lot more. Don't wait and give yourself this knowledge by getting the book.

artificial intelligence technology: Artificial Intelligence Technology Huawei Technologies Co., Ltd., 2022-10-21 This open access book aims to give our readers a basic outline of today's research and technology developments on artificial intelligence (AI), help them to have a general understanding of this trend, and familiarize them with the current research hotspots, as well as part of the fundamental and common theories and methodologies that are widely accepted in AI research and application. This book is written in comprehensible and plain language, featuring clearly explained theories and concepts and extensive analysis and examples. Some of the traditional findings are skipped in narration on the premise of a relatively comprehensive introduction to the evolution of artificial intelligence technology. The book provides a detailed elaboration of the basic concepts of AI, machine learning, as well as other relevant topics, including deep learning, deep learning framework, Huawei MindSpore AI development framework, Huawei Atlas computing platform, Huawei AI open platform for smart terminals, and Huawei CLOUD Enterprise Intelligence application platform. As the world's leading provider of ICT (information and communication technology) infrastructure and smart terminals, Huawei's products range from digital data communication, cyber security, wireless technology, data storage, cloud computing, and smart computing to artificial intelligence.

artificial intelligence technology: Artificial Intelligence Technology in Healthcare Neha Sharma, Durgesh Srivastava, Deepak Sinwar, 2024-09-05 Artificial Intelligence Technology in Healthcare: Security and Privacy Issues focuses on current issues with patients' privacy and data security including data breaches in healthcare organizations, unauthorized access to patients' information, and medical identity theft. It explains recent breakthroughs and problems in deep learning security and privacy issues, emphasizing current state-of-the-art methods, methodologies, implementation, attacks, and countermeasures. It examines the issues related to developing artifiicial intelligence (AI)-based security mechanisms which can gather or share data across several healthcare applications securely and privately. Features: Combines multiple technologies (i.e., Internet of Things [IoT], Federated Computing, and AI) for managing and securing smart healthcare systems. Includes state-of-the-art machine learning, deep learning techniques for predictive analysis, and fog and edge computing-based real-time health monitoring. Covers how to diagnose critical diseases from medical imaging using advanced deep learning-based approaches. Focuses on latest research on privacy, security, and threat detection on COVID-19 through IoT. Illustrates initiatives for research in smart computing for advanced healthcare management systems. This book is aimed at researchers and graduate students in bioengineering, artificial intelligence, and computer engineering.

artificial intelligence technology: Applications of Block Chain technology and Artificial Intelligence Mohammad Irfan, Khan Muhammad, Nader Naifar, Muhammad Attique Khan, 2024-05-27 Today, emerging technologies offer a new pathway for advancing the economy in the fields of banking, finance, and capital markets. Blockchain applications play a crucial role in ensuring trust and security within these industries by relying on transparency and visibility through peer-to-peer networks. The banking industry has also witnessed increased operations speed, better transparency, efficiency enhancement, fraud extenuation at less cost while sharing real-time data between various parties. Thus, the adoption of blockchain in the Banking and Insurance industry is developing very fast. It has emerged as the commonly accepted default platform for the banking and insurance industry. This book explores how blockchain technology optimizes and integrates transactions and operations, facilitating easier access to information. This, in turn, has the potential to reduce communication costs and minimize minor data transfer errors. Additionally, the book delves into the current applications of blockchain technology in the financial industry, discusses its limitations, and outlines its future prospects for broader accessibility. This book is aimed at students and researchers in financial engineering and fintech and it can serve as a reference for identifying problem areas and their possible solutions.

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Learning and Big Data Analytics for IoT Security and Privacy John Macintyre, Jinghua Zhao, Xiaomeng Ma, 2021-10-27 This book presents the proceedings of the 2020 2nd International Conference on Machine Learning and Big Data Analytics for IoT Security and Privacy (SPIoT-2021), online conference, on 30 October 2021. It provides comprehensive coverage of the latest advances and trends in information technology, science and engineering, addressing a number of broad themes, including novel machine learning and big data analytics methods for IoT security, data mining and statistical modelling for the secure IoT and machine learning-based security detecting protocols, which inspire the development of IoT security and privacy technologies. The contributions cover a wide range of topics: analytics and machine learning applications to IoT security; data-based metrics and risk assessment approaches for IoT; data confidentiality and privacy in IoT; and authentication and access control for data usage in IoT. Outlining promising future research directions, the book is a valuable resource for students, researchers and professionals and provides a useful reference guide for newcomers to the IoT security and privacy field.

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(AI) is a rapidly developing field of computer science which now plays an increasingly important role in many disciplines. A catalyst for significant change, research into AI is of particular importance in fields such as medicine and education, and as such has become an area to watch for many people worldwide. This book presents the proceedings of AIMEE 2023, the 7th International Conference on Artificial Intelligence, Medical Engineering and Education, held on 9 and 10 November 2023 in Guangzhou, China. The conference brought together top international researchers from around the world to exchange research results and address open issues in AI, medical engineering and education. A total of 238 submissions were received for AIMEE 2023, of which 89 papers were selected for presentation and publication after a rigorous international peer review process. The book is divided into 3 sections, covering artificial intelligence and scientific methodology; systems engineering and analysis: concepts, methods, and applications; and education reform and innovation. Presenting papers which explore and discuss many novel concepts and methodologies contributing to the rapid evolution of artificial intelligence and its applications, the book will be of interest to all those working in the relevant fields.

artificial intelligence technology: From Machine Learning to Artificial Intelligence Abdalmuttaleb M. A. Musleh Al-Sartawi, Manaf Al-Okaily, Anas Ali Al-Qudah, Fadi Shihadeh, 2025-02-01 The world is on a cusp of something great. Technology has advanced from solving simple issues to complex issues in both human life and other aspects such as social, economic, and environmental issues. The significance of machine intelligence as a tool to propel human as well as economic development is an important and hot topic today. This book is about how modern machine intelligence, AI, and machine learning applications can be used by governments and firms for financial and economic inclusion, as well as for providing solutions to bridge the digital divide. It aims to cover philosophical discussions, frameworks, and applications on central topics in machine intelligence, deep learning, mesh networks, frugal engineering, frugal innovation, blockchain technology, alternate networks, and intelligent digital financial inclusion system architectures. This book also aims to discuss the initiatives, policies, strategies, and governance issues related to furnishing technologies for technology access, financial inclusion and in turn economic growth. Financial inclusion is defined as the proportion of people and corporations that use financial services. It further describes the fair, equal, and attainable access to financial services (Rawat et al., 2023). Financial inclusion is key to economic inclusion and economic growth as it enables the poor to improve their lives. Chapters in the book will improve our understanding of the advances and challenges of applying machine intelligence for financial inclusion and economic growth in different contexts including financial markets, governments, and corporations in both developing and developed countries. Access to financial services is essential to development efforts of markets, economies and eventually societies. Hence, in this context, financial inclusion can be explained as the process of ensuring that individuals particular impoverished people have access to essential financial services in the formal financial sector. Financial inclusion, recently, has been receiving traction from scholars and policymakers whereby it is one of the major strategies used by economies and societies in achieving UN's sustainable development goals. Rawat et al. (2023) argues that it is vital to increase the use of "low-cost digital methods" for the economically marginalized and under-served people and sectors. There is a need for financial inclusion for the rapidly dynamic Industry 4.0. Therefore, linking technology, more particularly machine intelligence with financial inclusion and technology access is quite crucial given the current technological environment. Additionally, financial inclusion helps in enhancing the level of economic and social inclusion in many societies and developing countries as well as help in reducing poverty levels. Policy makers in several countries continue to commit significant resources and technologies to increase the level of financial inclusion in their countries to reduce financial exclusion. In developing countries, financial inclusion remains below potential in part due to the digital divide, limited technology access and the challenge for financial institutions in developing products for the low-income mass market (Hook IV, 2019; Marimuthu et al., 2022). These matters are important topics to be researched and discussed, especially with the advancement of technology such as artificial intelligence, machine learning,

blockchain, business intelligence, online education, in the current post-pandemic environment which catalysed these digital transformations. Therefore, this book has been proposed to discuss a very important and emerging topics which contributes significantly to policy and the SDGs in the digital economy.

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