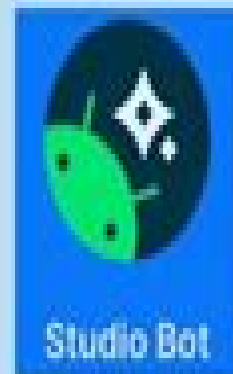
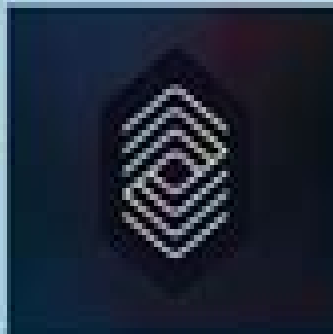


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Proceedings of the Future Technologies Conference (FTC) 2025, Volume 2 Kohei Arai, **Cybersecurity** George Dimitoglou, Leonidas Deligiannidis, Hamid R. Arabnia, 2025-10-20 The depth of our dependence on technology in our interconnected world underscores the critical role of cyber security This book provides essential insights into the latest research and best practices and techniques for protecting against cyber threats emphasizing the critical relevance of cyber security in safeguarding personal information businesses and national security *Analysis with Mathematica®* Galina Filipuk, Andrzej Kozłowski, 2025-11-17 A computer algebra system such as Mathematica is able to do much more than just numerics This revised text shows how to tackle real mathematical problems from basic analysis The reader learns how Mathematica represents domains qualifiers and limits to implement actual proofs a requirement to unlock the huge potential of Mathematica for a variety of applications [Artificial Intelligence Chips and Data: Engineering the Semiconductor Revolution for the Next Technological Era](#) Botlagunta Preethish Nandan, 2025-05-07 The 21st century is witnessing a profound technological transformation with artificial intelligence AI at its epicenter As AI algorithms become increasingly sophisticated their insatiable demand for processing power and data throughput is pushing the boundaries of what traditional computing infrastructures can offer At the heart of this evolution lies the semiconductor industry reimagining its core principles to engineer chips that are not only faster and more efficient but also intelligent and adaptable This book is born out of the urgent need to explore the critical intersection between AI and semiconductor innovation It provides a comprehensive view of how custom designed AI chips such as GPUs TPUs FPGAs and neuromorphic processors are redefining performance benchmarks and unlocking capabilities that were once the realm of science fiction We delve into the fundamental principles behind AI centric chip design the data pipelines that feed them and the architectural innovations enabling real time learning inference and massive parallelism From edge computing to hyperscale data centers the book investigates how data movement storage and processing are being reengineered to support the next wave of AI applications including autonomous systems natural language understanding predictive analytics and more Equally important this work sheds light on the global semiconductor ecosystem including the geopolitical economic and environmental factors shaping chip manufacturing and supply chains As AI continues to permeate every sector healthcare finance defense education and beyond the role of AI chips becomes increasingly strategic Whether you re a researcher engineer policymaker or tech enthusiast this book aims to equip you with a deep understanding of the technological forces propelling us into a new era of intelligent machines It is both a chronicle of current breakthroughs and a roadmap for future innovation Welcome to the frontier of AI and semiconductors where data meets silicon to redefine what s possible **Emotions in Code - The AI Frontier of Sentiment Analysis** ,2025-10-15 What happens when machines start to understand maybe even feel our emotions Emotions in Code The AI Frontier of Sentiment Analysis explores the fascinating intersection of artificial

intelligence and human emotions As algorithms become more sophisticated they are learning not just to process data but to in effect read between the lines interpreting tone mimicking affect and reacting to our moods in real time In a world increasingly shaped by AI grasping how these systems interpret sentiment is not just useful it is vital The call for emotional intelligence in our technologies echoes louder than ever Addressing this urgent need the book provides A layered exploration of sentiment analysis from paradoxical challenges to emerging empathy algorithms A look at the machine learning methods behind emotional recognition in language voice and behavior Case studies and insights from across the globe spanning media healthcare finance and more Reflections on the ethical stakes of emotional AI what it means for trust communication and the human experience Blending technical depth with real world relevance this book caters to researchers developers and anyone curious about how machines are becoming smarter at reading us and what that means for the future

Code of Federal Regulations, 1968 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of Jan 1 with ancillaries

AI in Agriculture for Sustainable and Economic Management Sirisha Potluri,Suneeta Satpathy,Santi Swarup Basa,Antonio Zuorro,2024-08-01 This book explains the best practices and their respective outcomes in artificial intelligence AI to meet sustainable development goals and demands It examines the practices technologies and innovations at the core of various research issues to meet the sustainable development demands in agriculture to balance social economic and environmental sustainability with AI AI in Agriculture for Sustainable and Economic Management discusses AI driven nanotechnology approaches for precision agriculture and solutions for the optimization of farming resources and their management The authors examine the impact of AI in agriculture and how technology driven sustainable farming with smart waste water treatment for zero waste for the circular economy can extend crop shelf life It discusses how AI expertise can be advantageous to envisage and evaluate the increasing demands of productivity and to help to maintain ecosystems and strengthen the capacity for crop adaptation in response to drastic changes in climate and weather natural disasters and other significant factors These findings and practices are also useful to emphasize how an agricultural ecosystem can be advanced and industrialized so that it can aid not only large commercial farms but also smaller farmlands Finally it also discusses how AI practices will help to find a balance between the volume of food manufactured and the proper maintenance of the ecosystem This book is intended for researchers and upper graduate students interested in artificial intelligence in agricultural engineering AI advances in crop science and technology for sustainable development

Natural Language Processing in Action, Second Edition Hobson Lane,Maria Dyshel,2025-02-25 Develop your NLP skills from scratch with an open source toolbox of Python packages Transformers Hugging Face vector databases and your own Large Language Models Natural Language Processing in Action Second Edition has helped thousands of data scientists build machines that understand human language In this new and revised edition you ll discover state of the art Natural Language Processing NLP models like BERT and HuggingFace transformers

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