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AI-assisted Programming for Web and Machine Learning Muralidhar Kurni,Ramesh Krishnamaneni,Dr Srinivasa K G,2025-10-08 DESCRIPTION Artificial intelligence is redefining how software is created enabling developers to code faster improve accuracy and bring innovative ideas to life In today s competitive technology landscape AI assisted programming is no longer optional it s a core skill for building modern web applications and machine learning solutions This book systematically guides you through the whole development cycle You will start with the foundations of understanding AI assisted programming setting up your environment and mastering prompt engineering You will then discover how AI can accelerate front end and back end web development enhance debugging and optimize performance You will also explore data preprocessing model creation training and deploying optimized solutions with the help of real world examples case studies and hands on exercises ensuring you can apply every concept in practice Also by mastering prompt engineering you will be able to generate debug and optimize code across both these high demand fields By the end of this book you will have the confidence and skills to integrate AI into your workflow automate time consuming tasks build intelligent applications and deliver impactful future ready solutions WHAT YOU WILL LEARN Apply prompt engineering effectively for web and ML projects Develop AI powered front end and back end applications efficiently Automate debugging testing and performance optimization with AI Integrate AI tools seamlessly into full stack development workflows Train fine tune and deploy scalable ML models in the cloud Understand AI assisted programming concepts and set up development tools Preprocess data and create AI driven machine learning pipelines WHO THIS BOOK IS FOR This book is for learners who want to explore the power of AI assisted programming in web development and machine learning Software engineers web developers and data scientists who possess foundational programming skills ideally with Python or JavaScript can also use it to upgrade their skills TABLE OF CONTENTS 1 AI in Programming 2 Setting up Your AI Environment 3 Prompt Engineering 4 AI in Front end Development 5 AI for Back end Development 6 Debugging and Optimization with AI 7 Data Preprocessing with AI 8 Building and Training Machine Learning Models 9 Deploying Optimized ML Models 10 Real world Applications 11 Future Innovations and Ethics in AI **Digitization in Education Risks, Values and Opportunities** Luc Massou,Philippe Bonfils,Emilie Remond,Mariam Gawich,Marco Alfonse,2026-02-10 This book constitutes the refereed proceedings from the 14th Mediterranean Conference on Information and Communication Technologies in Education TICEMED 2024 held in Cairo Egypt in October 15 17 2024 The 15 full papers presented in this book were carefully selected and reviewed from 42 submissions These papers have been organized in the following topical sections AI integration in Pedagogy Ethical and Critical Challenges Digital Technologies in Education and Learners Perspectives Hybridization and Learning Experiences Learning and Collaboration Technologies Brian K. Smith,Marcela Borge,2025-05-31 The three volume set LNCS 15806 15808 constitutes the thoroughly refereed proceedings of the 12th International Conference on Learning and Collaboration

Technologies LCT 2025 held as part of the 27th International Conference HCI International 2025 which took place in Gothenburg Sweden June 22 17 2025 The total of 1430 papers and 355 posters included in the HCII 2025 proceedings was carefully reviewed and selected from 7972 submissions The papers have been organized in topical sections as follows Part I Designing Learning Experiences Technological Innovation in Education Part II From Human Teachers to AI Educators Intelligent Learning Environments Part III Serious Games and Gamification Immersive Learning Understanding Learning Experiences AI and ML in Behavioral, Health, and Applied Sciences Vimala Veeraraghavan, Shatakshi Srivastava, Sonam Raheja, 2026-03-03 This book provides a comprehensive exposition to applications of AI in areas such as psychology engineering bioscience pharmacology and sociology which deal with various aspects of human behavior and development It also delves into the areas of ethical and legal issues related to AI as applied to different subject areas In each of these areas AI has been very effectively used and has benefitted human beings for instance in health care However challenges in application of AI to different disciplines lie in the multidisciplinary approach which requires AI to include many related disciplines almost equally to a problem and find an effective and appropriate solution that can be replicated and predictable too The merging of the different fields having different terminologies methods and procedures as well as legal issues poses difficulties in applying AI to integrating the essence of the different disciplines toward solution of a problem Furthermore a thorough knowledge of the concerned fields in addition to the AI renders this task highly challenging *Proceedings of the 5th International Conference on AI Research* Renata Paola Dameri, The International Conference on AI Research ICAIR is becoming a key forum for academics and students whether social scientists natural scientists or philosophers come together to explore the future of society in the context of AI Many aspects of AI are now the subject of peer reviewed academic research including the increasing use of Chatbots and GenAI in academe and in society at large The conference was initially launched in 2019 as the European Conference on Artificial Intelligence and Robotics After a success inaugural event in Oxford the conference fell victim to Covid and the following three years were held online Time was taken in 2023 to refocus this fast developing area of research and the name of the conference was changed this year to the International Conference on Artificial Intelligence The Proceedings of the 2025 edition of the conference include academic research papers PhD research papers Masters Research papers and work in progress papers all of which have been presented and discussed at the ICAIR 2025 conference The proceedings are of an academic level appropriate to a professional research audience including graduates postgraduations doctoral and post doctoral researchers All papers have been double blind peer reviewed by members of the Review Committee **A Practical Guide to Artificial Intelligence in Higher Education: Innovation and Applications** Mageswaran Sanmugam, Zuheir N. Khlaif, Wan Ahmad Jaafar Wan Yahaya, Zaleha Abdullah, 2025-07-08 This book explains how educators can use artificial intelligence in education to enhance student engagement and improve learning outcomes by sharing best practices for using AI to enhance learning quality and foster sustainable teaching This

book covers various topics related to the use of AI in education from designing activities to using AI in teaching to using AI in assessment by following the ethical considerations of using AI in teaching The book not only discusses the related topics to using AI in education but also presents best practices of using AI in teaching and learning from different countries and provides best practices of ethical considerations based on lives experiences of the authors Furthermore the book introduces the teaching methods of integrating AI in teaching and learning Therefore this book offers essential information and a practical guide to using AI in education

Case Studies on Holistic Medical Interventions Sai Kiran Oruganti, Dimitrios Karras, Srinesh Singh Thakur, Kalpana Nagpal, Shashi Kant Gupta, 2025-02-14 The First International Medical Case Reports Conference 2024 IMED C was a pioneering event set to redefine the landscape of medical research and case reporting This conference was designed to foster collaboration and knowledge exchange among healthcare professionals researchers and scholars worldwide What made this edition exceptional was its virtual online format breaking down geographical barriers and transforming the way medical knowledge is shared It was a platform where the latest breakthroughs in medical case reports were unveiled innovative diagnostic strategies and treatment approaches showcased and visionary ideas were given a voice It became a central meeting point for professionals and scholars seeking to share experiences and expertise across borders

Epic Content Marketing, Second Edition: Break through the Clutter with a Different Story, Get the Most Out of Your Content, and Build a Community in Web3 Joe Pulizzi, Brian W. Piper, 2023-03-07 From the godfather of content marketing this completely revised and expanded edition brings marketers fully up to date on the newest content marketing methods and tools including Web3 When Epic Content Marketing was first published eight years ago content marketing was just starting to pick up speed in the marketing world Now this approach which includes everything from blogging to YouTube videos to social media is the core of most organizations marketing plans Fully revised and updated this new edition walks you through the process of developing stories that inform and entertain and compel customers to act without actually telling them to In addition to covering all the important social media platforms that have arisen over the past eight years and introducing the creator economy it shows how to update existing content and make new content that performs in strategic ways Updates include New content models structures and opportunities Content entrepreneurship content mergers and acquisitions Subscriptions and audience building Team structure importance of community DAOs and creator networks Content options NFTs and discord servers Making data driven decisions to optimize content performance Distributed the right way at the right time epic content is the best way to truly capture the hearts and minds of customers It s how to position your business as a trusted expert in its industry It s what customers share and talk about This updated edition of the trusted guide provides everything you need to succeed in the new world of content marketing

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