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Albert A Gayle

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ChatGPT-4 for Nerds Guide Book Matt Kingsley, You ve played with ChatGPT 4 You ve seen the demos Now it s time to go deep This isn t your average beginner s guide This is the black book for serious nerds who want to dominate the AI landscape ChatGPT 4 for Nerds isn t about cute chatbots or fluffy content It s about unlocking the raw power of this incredible technology We re talking advanced prompt engineering API integration code generation data analysis the real stuff Forget the limitations Forget the intended uses Inside you ll discover Secrets of the AI Whisperers The undocumented techniques the hidden prompts the strategies that separate the dabblers from the masters Code Like a God Automate your workflow build software faster than ever and leave the competition in the dust Data Domination Extract hidden insights from any dataset instantly Become a data whisperer The Ethics of Power Wield AI responsibly and navigate the moral maze of this cutting edge technology Hack the System Push ChatGPT 4 to its absolute limits and discover its true potential Build Your AI Army Integrate ChatGPT 4 into everything and create your own AI powered ecosystem This book is your key to unprecedented control over AI It s your roadmap to becoming a leader in the AI revolution Stop being a user Become an architect Bonus Includes a curated arsenal of essential tools resources and 150 ready to use advanced prompts Stop playing Start winning Grab your copy now

Generative AI and Education B. Mairéad Pratschke,2024-08-27 This volume

addresses the gap in knowledge around generative AI and its applications in education It draws on the recent history of technological innovation and digital pedagogies locating generative AI in the contemporary discourse around education futures It argues that a new hybrid model of education is emerging requiring educational institutions to embed generative AI into course and programme design delivery and assessment It also proposes a shift from a focus on learning as output to learning as a process and explores what that shift might look like Grounded in educational theory it offers actionable pedagogy informed guidance on how to position AI as a collaborator in the construction of learning in a manner that is congruent with the values and aims of education It offers advice based on evidence based digital pedagogy including frameworks for effective teaching and learning with generative AI that enable educators and designers to put these ideas into practice The book also explores the wider context informing this shift connecting narratives from governments and industry leaders on the strategic importance of generative AI and lifelong learning learning agility and future skills that make the case for the integration of competency based assessment into mainstream education Finally going beyond pedagogy and practice it considers of some of the broader issues including limitations and ethics and the implications of integrating generative AI into institutional planning and design and includes a sample roadmap for education leaders to start the process of integrating generative AI into their institutions This work approaches the topic of generative AI from the vantage point of educators by addressing themes and concerns that will resonate with professionals in the sector

Node.js Projects

Jonathan Wexler,2025-07-31 Whether you re a JavaScript beginner ready to build your first backend app or a self taught

developer looking to grow beyond tutorials Node.js Projects gives you the hands on experience you need. Through a series of self contained projects ranging from content aggregators to secure password managers web scrapers ML backed analysis and an AI powered learning assistant you'll apply modern tools like Fastify MongoDB Redis JWT and Google's Gemini API in practical job relevant ways. With each chapter author Jonathan Wexler challenges you to think like an engineer emphasizing architectural thinking clean coding and iterative design. You'll build confidence solving real world problems while deepening your understanding of asynchronous programming API design security practices and scalable deployment patterns. Confidently master async programming with `async await` and the Node.js event loop. Effectively design scalable APIs using Fastify and modular routing patterns. Reliably manage data with the filesystem MongoDB and CSV output. Securely implement authentication flows with JWTs and environment based configs. Seamlessly integrate third party APIs like OpenAI and Google Gemini. Efficiently build real time features with Redis schedulers and event driven logic. Smoothly transition from prototype to production with modern Node.js workflows.

Decoding Generative AI

Farabi Shaylor, Kelina Lowther-Harris, Kirthana Srinivasan, Anoushka Samanta, 2024-04-16

The emergence of Generative AI has marked a significant turning point heralding a new age of innovation and intellectual exploration. Much like a compelling narrative, this advancement in artificial intelligence has captivated the global community and ushered in an unprecedented surge of innovation. For many years, the subtle hum of AI has been interconnected into the fabric of our society. Devices such as Echo, Alexa, and Google Home, once considered avant garde, are now seamlessly integrated into our homes and vehicles, becoming essential navigators in our daily journeys. However, this new phase of AI evolution is distinct. Capable of enhanced ability, these new generative AI systems could easily discern the intuitive needs of their end users. With a mere command or a simple image, generative AI systems can draft comprehensive reports, write legal documents, or produce intricate visual masterpieces. Their proficiency can also be extended to routine and mundane tasks, smoothly managing administrative duties, writing correspondences, and providing invaluable support in professional settings. Although these foundation models require a vast amount of training data and billions of parameters to be effective, the outcomes are equally remarkable. Technology companies and investors, recognising the potential, embarked on an investment spree, steering a new era for the development of specialised models such as Microsoft CoPilot, Midjourney, ChatGPT, and so on. As these technology companies continue to improve their language models, each version seems to be more refined than its predecessor. Foremost among these are the Large Language Models (LLMs). emblematic of this AI renaissance. Now, with voice activated capabilities, generative AIs have become capable of much more in the relatively short span of their existence. With the integration of voice activated features combined with their capabilities to speak like a human being, their potential continues to grow exponentially. They aren't labelled as chatbots anymore; these AI systems signify a technological paradigm shift, reshaping humanity's understanding of technology, automation, and creative expression. However, with such shift comes the imperative need for governance and

control The unchecked expansion of AI poses unmitigated challenges In reality these advanced AIs have the potential to be transformative and destructive parallelly Thus it is necessary to establish guidelines and oversight to ensure the ethical deployment of such systems which this book focuses on As society stands at this transformative crossroads parallels are being drawn to the imaginative world of fiction The concept of Jarvis AI from the fictitious world appears provocatively close to becoming a reality The epoch of generative AI has truly dawned promising a future where technological prowess and human aspiration unite

Social Data Analytics in the Cloud with AI Xuebin Wei,Xinyue Ye,2024-12-30 The rise of cloud computing and Generative artificial intelligence AI has revolutionized data analytics pipelines Analysts can collect store and process vast datasets in the cloud with high availability and scalability and also leverage Generative AI to query and visualize datasets in natural languages This pioneering textbook provides a gateway for students educators and professionals to develop and enhance social data analytics capabilities with the latest cloud computing and AI technologies The textbook introduces educational cloud resources from leading technology companies begins with foundational concepts and progresses to advanced techniques Features The first textbook on cloud based social data analytics with the assistance of Generative AI Introduces educational cloud resources from leading technology companies like AWS GitHub and MongoDB Presents a fully AI powered data analytics pipeline from Python coding to data collection with APIs cloud based data storage natural language queries and interactive visualization Analyzes Census and social media data with the latest large language models LLMs Provides hands on exercises with real world datasets on timely issues This textbook is an excellent resource for upper level undergraduate and graduate students taking GIS Urban Informatics Social Science Data Analysis and Data Science courses faculty members teaching such courses and professionals and researchers interested in leveraging cloud computing and Generative AI in social data analytics

AI for Nonprofits Darian Rodriguez Heyman,Cheryl Contee,2025-07-29 A collection of actionable AI tools you can apply immediately to help your nonprofit drive social impact and change In *AI for Nonprofits Putting Artificial Intelligence to Work for Your Cause* a team of leading nonprofit experts and social entrepreneurs delivers a startlingly insightful strategic how to guide for nonprofit and foundation leaders board members and volunteers as well as higher education professionals and social entrepreneurs looking to deploy and integrate artificial intelligence tailored to their organization s mission and needs It s the leading reference guide for people who are entirely new to AI as well as tech savvy veterans with a deep understanding of artificial intelligence looking for proven hands on techniques they can apply immediately to transform their nonprofits Each chapter is based on interviews conducted with 57 of the nonprofit industry s most innovative and reputed voices Together they provide the latest strategies and tactics for nonprofit generative AI and predictive analytics applications skills and competencies needed to effectively use this new technology tips tools best practices resource reviews and the most common pitfalls to avoid *AI for Nonprofits* walks you through exactly how to strategically customize artificial intelligence to improve your fundraising and resource development

efforts marketing and community engagement program delivery and back office operations From human resources management to program strategy social listening and donor research the book provides the on the ground techniques you need to deploy to transform your nonprofit s operations Inside the book Step by step frameworks and actionable roadmaps to help you implement AI for content creation donor engagement and developing personalized messages at scale How to protect your donors privacy and data with policies and practices that comply with rapidly shifting legal and regulatory landscapes Cutting edge research and practical case studies drawn from real world situations that illustrate concrete AI applications Access to 100 tools platforms and providers focused on helping nonprofits optimize their use of AI AI for Nonprofits explains how to supercharge your organization s fundraising pipeline marketing and community engagement program delivery back office operations and governance policies It s perfect for nonprofit executives managers professionals and leaders AI for Nonprofits will also earn a place in the libraries of anyone with an interest in using AI to power social impact and change

Computer-Human Interaction Research and Applications Hugo Plácido da Silva,Pietro Cipresso,2025-03-07 This two volume set CCIS 2370 and CCIS 2371 constitutes the proceedings of the 8th International Conference on Computer Human Interaction Research and Applications CHIRA 2024 held Porto Portugal during November 21 22 2024 The 16 full papers and 45 short papers presented in these volumes were carefully reviewed and selected from 76 submissions These papers focus on the research advancements and practical applications within various areas in the field of Computer Human Interaction including Human Factors and Information Systems Interactive Devices Interaction Design and Adaptive and Intelligent Systems

The Lecturer's Toolkit Phil Race,Sally Brown,2025-04-16 With a focus on practical implementable strategies to enhance learning experiences the extensively updated sixth edition of The Lecturer s Toolkit is an essential guide for those new to teaching in Higher Education as well as a companion to improve the practice of more experienced teachers Centred around the Race model of learning which proposes a pragmatic exploration of how students learn it offers research informed practical tips and advice with question prompts to cement knowledge key tips to enhance best practice and chapter outcomes to help shape learning This edition has been fully updated to recognise changing approaches to higher education learning including online and distance learning and consideration of how of AI and Large Language Models are impacting on ways of teaching and assessing students Covering all of the need to know information that is essential to thrive in tertiary teaching environments this book includes information on Understanding how students really learn including online and hybrid learning Ways to increase student motivation and engagement Ways to design assessments that are both authentic and compassionate Pragmatic and positive ways of using feedback to enhance learning Practical advice on large and small group teaching Advice on looking after yourself in stressful working contexts Some thoughts on where higher education is moving next This accessible toolkit is based on decades of experience of higher education and is written with authority and clarity in a jargon free style An invaluable guide it is a must read for every higher education professional

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