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Empire of AI Karen Hao, 2025-05-20 An Instant New York Times Bestseller A bestselling page turner that has made waves not just in Silicon Valley but around the world With *Empire of AI* Hao is fundamentally shaping many people's perceptions and understanding of the company at the center of the AI revolution TIME Magazine TIME100 AI 2025 Excellent and deeply reported Tim Wu The New York Times Startling and intensely researched an essential account of how OpenAI and ChatGPT came to be and the catastrophic places they will likely take us Vulture Hao's reporting inside OpenAI is exceptional and she's persuasive in her argument that the public should focus less on AI's putative sentience and more on its implications for labor and the environment Benjamin Wallace Wells New Yorker From a brilliant longtime AI insider with intimate access to the world of Sam Altman's OpenAI from the beginning an eye opening account of arguably the most fateful tech arms race in history reshaping the planet in real time from the cockpit of the company that is driving the frenzy When AI expert and investigative journalist Karen Hao first began covering OpenAI in 2019 she thought they were the good guys Founded as a nonprofit with safety enshrined as its core mission the organization was meant its leader Sam Altman told us to act as a check against more purely mercantile and potentially dangerous forces What could go wrong Over time Hao began to wrestle ever more deeply with that question Increasingly she realized that the core truth of this massively disruptive sector is that its vision of success requires an almost unprecedented amount of resources the compute power of high end chips and the processing capacity to create massive large language models the sheer volume of data that needs to be amassed at scale the humans cleaning up that data for sweatshop wages throughout the Global South and a truly alarming spike in the usage of energy and water underlying it all The truth is that we have entered a new and ominous age of empire only a small handful of globally scaled companies can even enter the field of play At the head of the pack with its ChatGPT breakthrough how would OpenAI resist such temptations Spoiler alert it didn't Armed with Microsoft's billions OpenAI is setting a breakneck pace chased by a small group of the most valuable companies in human history toward what end not even they can define All this time Hao has maintained her deep sourcing within the company and the industry and so she was in intimate contact with the story that shocked the entire tech industry Altman's sudden firing and triumphant return The behind the scenes story of what happened told here in full for the first time is revelatory of who the people controlling this technology really are But this isn't just the story of a single company however fascinating it is The forces pressing down on the people of OpenAI are deforming the judgment of everyone else too as such forces do Naked power finds the ideology to cloak itself no one thinks they're the bad guy But in the meantime as Hao shows through intrepid reporting on the ground around the world the enormous wheels of extraction grind on By drawing on the viewpoints of Silicon Valley engineers Kenyan data laborers and Chilean water activists Hao presents the fullest picture of AI and its impact we've seen to date alongside a trenchant analysis of where things are headed An astonishing eyewitness view from both up in the command capsule of the new economy and

down where the real suffering happens Empire of AI pierces the veil of the industry defining our era *The Rise of Generative Artificial Intelligence* Nir Kshetri,2024-12-09 This timely book explores how generative artificial intelligence GAI is developing and diffusing highlighting the diverse impacts this technology is likely to have on economies and societies It also examines the effects on and the responses of industries where GAI has been the most pervasive **Magical AI**

Grimoire Davezilla,2025-03-03 Chaos magic offers a great deal of inspiration for creative freedom and innovation in magic but it also outrages many people who liked to think of themselves as guardians of ancient traditions This new book seems destined to do exactly the same for the next generation of magicians Its publication may well prove a seminal moment in the history of magic from the foreword by Peter J Carroll Magic workers have long used the tools at hand for crafting spells and rituals AI technology has opened a new frontier for magic Some of the most powerful tools at a magician s fingertips today are computers and smart devices *Magical AI Grimoire* helps you to understand how to work with technology creatively and ethically in the practice of your magic Whether you re trying to use promptcraft to perfect a spell ChatGPT to outline and strengthen a ritual or generative image software to recreate what you ve only seen on the astral plane Davezilla is your guide Around the world witches and magicians are finding that technology has a spiritual essence and a mind of its own Witches and magicians have been using computers to organize sabbats and ceremonies since the early days of electronic communication Astrology apps were some of the first applications written and in most covens it s a good bet that one or more of the members work with computers Davezilla provides context and history for the evolving uses of AI from Alexa to Spotify to ChatGPT and beyond and leads the pioneering curious magician through a new magical realm with responsibility and clarity of insight **The Intelligence Explosion** James Barrat,2025-09-02 With the rapid rise of generative artificial

intelligence both existential fears and uncritical enthusiasm for AI systems have surged In this era of unprecedented technological growth understanding the profound impacts of AI both positive and negative is more crucial than ever In *The Intelligence Explosion* James Barrat a leading technology expert equips readers with the tools to navigate the complex and often chaotic landscape of modern AI This compelling book dives deep into the challenges posed by generative AI exposing how tech companies have built systems that are both error prone and impossible to fully interpret Through insightful interviews with AI pioneers Barrat highlights the unstable trajectory of AI development showcasing its potential for modest benefits and catastrophic consequences Bold eye opening and essential *The Intelligence Explosion* is a must read for anyone grappling with the realities of the technological revolution **THE EVOLUTION OF CHATGPT: FROM TEXT TO VOICE**

IN VIRTUAL WORDS Virendra Pal Singh,Durgesh Kumar,Pankaj Sharma,Dr. Javed Ahmad,Mr.Gaurav Kumar Rajput,2023-12-12 ChatGPT is an artificial intelligence AI based chatbot that makes use of natural language processing in order to provide conversational discourse that sounds and feels like it was done with a real person This is accomplished by producing conversational discourse in many languages including English Japanese and Korean ChatGPT is a cloud based

application that may be accessed using the Azure cloud platform It was created by Microsoft Research The language model is able to provide responses to inquiries as well as generate a variety of written material such as emails posts on social networking sites and posts on platforms that enable users to write in the format of an essay On November 30 2022 OpenAI developed ChatGPT a big language model based chatbot and made it available to the public Only the beta version of ChatGPT was first made accessible to users Through the utilization of this feature users are provided with the capacity to enhance and lead a discussion in the direction of a desired duration structure style level of information and language This ability is made available to users What we refer to as the Chat Generative Pre trained Transformer is referred to as ChatGPT in its shorter version In order to determine the context of the dialogue at each level of the discussion a method known as prompt engineering is utilized This method involves looking at the prompts and responses that came before it in the conversation ChatGPT is built on either the GPT 3 5 or the GPT 4 model both of which are a part of OpenAI s proprietary line of generative pre trained transformer GPT models Both models were used in the construction of ChatGPT Conversational interactions are one of the primary focuses of ChatGPT s design The Google developed transformer architecture serves as the foundation for these models which have been modified for use in conversational applications by employing a mix of supervised learning and reinforcement learning strategies These methods were utilized in order to get a higher level of precision with the models The research preview version of ChatGPT was made accessible to the general public for the very first time as a free service

Predictive Analytics for Toxicology Luis G. Valerio, Jr., 2024-08-13 Predictive data science is already in use in many fields but its application in toxicology is new and sought after by non animal alternative testing initiatives Predictive Analytics for Toxicology Applications in Discovery Science provides a comprehensive overview of the application of predictive analytics in the field of toxicology highlighting its role and applications in discovery science This book addresses the challenges of accurately predicting high level endpoints of toxicity and explores the use of computational and artificial intelligence research to automate predictive toxicology It underscores the importance of predictive toxicology in proposing and explaining adverse outcomes resulting from human exposures to specific toxicants especially when experimental and observational data on the toxicant are incomplete or unavailable Key features Includes a plain language description of predictive analytics in toxicology adding an overview of the wide range of applications Examines the science of prediction computational models as an automated science and comprehensive discussions on concepts of machine learning Opens the hood on AI and its applications in toxicology Features coverage on how in silico toxicity predictions are translational science tools The book integrates strategies and practices of predictive toxicology and offers practical information that students and professionals of the toxicology chemical and pharmaceutical industries will find essential It fulfills the expectations of student researchers seeking to learn predictive analytics in toxicology This book will energize scientists to conduct predictive toxicology modeling using artificial intelligence and machine learning and inspire students and seasoned scientists interested

in automated science to pick up new research using predictive in silico models to evaluate chemical induced toxicity With its focus on practical applications and real world examples this book serves as a guide for navigating the complex issues and practices of discovery toxicology It is an essential resource for those interested in computer based methods in toxicology providing valuable insights into the use of predictive analytics [Large Language Models Projects](#) Pere Martra,2024-09-18 This book offers you a hands on experience using models from OpenAI and the Hugging Face library You will use various tools and work on small projects gradually applying the new knowledge you gain The book is divided into three parts Part one covers techniques and libraries Here you ll explore different techniques through small examples preparing to build projects in the next section You ll learn to use common libraries in the world of Large Language Models Topics and technologies covered include chatbots code generation OpenAI API Hugging Face vector databases LangChain fine tuning PEFT fine tuning soft prompt tuning LoRA QLoRA evaluating models and Direct Preference Optimization Part two focuses on projects You ll create projects understanding design decisions Each project may have more than one possible implementation as there is often not just one good solution You ll also explore LLMOps related topics Part three delves into enterprise solutions Large Language Models are not a standalone solution in large corporate environments they are one piece of the puzzle You ll explore how to structure solutions capable of transforming organizations with thousands of employees highlighting the main role that Large Language Models play in these new solutions This book equips you to confidently navigate and implement Large Language Models empowering you to tackle diverse challenges in the evolving landscape of language processing What You Will Learn Gain practical experience by working with models from OpenAI and the Hugging Face library Use essential libraries relevant to Large Language Models covering topics such as Chatbots Code Generation OpenAI API Hugging Face and Vector databases Create and implement projects using LLM while understanding the design decisions involved Understand the role of Large Language Models in larger corporate settings Who This Book Is For Data analysts data science Python developers and software professionals interested in learning the foundations of NLP LLMs and the processes of building modern LLM applications for various tasks [Building Generative AI Agents](#) Tom Taulli,Gaurav Deshmukh,2025-06-15 The dawn of AI agents is upon us Tech visionaries like Bill Gates Andrew Ng and Vinod Khosla have highlighted the monumental potential of this powerful technology This book will provide the knowledge and tools necessary to build generative AI agents using the most popular frameworks such as AutoGen LangChain LangGraph CrewAI and Haystack Recent breakthroughs in large language models have opened up unprecedented possibilities After years of gradual progress in machine learning and deep learning we are now witnessing novel approaches capable of understanding reasoning and generating content in ways that promise to revolutionize nearly every industry This platform shift is as significant as the advent of mainframes PCs cloud computing mobile technology and social media It s why the world s largest technology companies like Microsoft Apple Google and Meta are making enormous investments in this category While

chatbots like ChatGPT Claude and Gemini have demonstrated remarkable potential the years ahead will see the rise of generative AI agents capable of executing complex tasks on behalf of users These agents already exhibit capabilities such as running test suites searching the web for documentation writing software answering questions based on vast organized information and performing intricate web based tasks across multiple domains They can autonomously investigate cybersecurity incidents and address complex customer support needs By integrating skills knowledge bases planning frameworks memory and feedback loops these systems can handle many tasks and improve over time Building Generative AI Agents serves as a high quality guide for developers to understand when and where AI agents can be useful their advantages and disadvantages and practical advice on designing building deploying and monitoring them What You Will Learn The foundational concepts capabilities and potential of AI agents Recent innovations in large language models that have enabled the development of AI agents How to build AI agents for launching a product creating a financial plan handling customer service and using Retrieval Augmented Generation RAG Essential frameworks for building generative AI agents including AutoGen LangChain LangGraph CrewAI and Haystack Step by step guidance on designing building and deploying AI agents Insights into the future of AI agents and their potential impact on various industries Who This Book Is For Experienced software developers

Build a Website with ChatGPT Paul McFedries, 2024-10-01 Create a portfolio of cool and creative websites all without having to write your own code Build a Website with ChatGPT teaches you zero coding web development utilizing powerful generative AI tools like ChatGPT If you can open a web browser you re ready to start building absolutely no coding experience required Inside Build a Website with ChatGPT you ll learn the important skills of AI assisted web programming such as Crafting effective prompts to generate HTML CSS and JavaScript Converting text into images with DALL E integration Building navigation bars image galleries and contact forms Deploying fully functional sites to the web for free Customizing the generated code for unique sites Inside Build a Website with ChatGPT you ll learn the high level coding concepts that let you check and perfect AI output prompting skills that deliver the exact code you need and how to properly deploy your site to the web for free Annotated code samples and advice on code customization give you the perfect balance of understanding and convenience Plus you ll get access to a tried and tested repository of prompts and working code About the technology You can build amazing websites even if you don t know HTML CSS and JavaScript Just describe what you want in plain English and let ChatGPT take care of the gnarly details This book guides you step by step as you create user friendly forms interesting graphics and interactive web pages using nothing but AI and your imagination About the book Build a Website with ChatGPT shows you how to make websites in an AI first world no experience required You ll start with the basics of generating pages with ChatGPT and by the end of the second chapter your first site will be up and running Author Paul McFedries then shows you how to add interesting text and graphics forms for user input and even custom CSS to give your pages some pizzazz As you go you ll expand your new AI skills to create photo galleries portfolios catalog pages and

more What's inside Writing effective prompts to create code text and graphics Adding navigation bars image galleries and contact forms Deploying your sites to the web for free Adding your unique touches to AI generated pages About the reader No experience with web development or programming required If you can create a Word document you can build a website About the author Paul McFedries has written over 100 books on web development and other technology topics including Web Design Playground Manning Publications The technical editor on this book was Anirudh V Prabhu Table of Contents 1 Introducing website creation with ChatGPT 2 Creating and deploying your first web page 3 Working with fonts colors and headings 4 Adding structure to a page 5 Publishing page posts 6 Adding links and navigation 7 Creating site content 8 Generating site forms 9 Adding lists to your pages 10 Setting up a photo gallery 11 Creating a portfolio page 12 Building an article page 13 Coding an interactive course catalog A Getting ready to build web pages with ChatGPT B Deploying your site C Learning a few ChatGPT best practices

Introduction to Intellectual Property World Intellectual Property Organization, 2025-05-19 The importance of intellectual property IP for the global economy continues growing from the objectives of promoting technology transfer to the concerns regarding access to vaccines and treatment in pandemic times from the goals of integrating national industries into global chains of value to the need for the protection of entrepreneur's differentiating intangible assets in their struggle to succeed in competitive markets IP acquires great relevance in the design of governments public policies as well as in the business strategies of inventors and creators This book elaborated as a collective effort by the experts of the World Intellectual Property Organization WIPO's and the International Union for the Protection of New Varieties of Plants UPOV's International Bureaus constitutes an indispensable guide that in a simple objective and yet thorough manner will orient the reader through the maze of legal economic and political topics that constitute today's IP Among the vast array of theoretical and practical aspects of IP covered by this book are the following discussions on the real nature and function of IP and its relation with competition law a summary of the concepts and the application of most of the many branches of IP including the analysis of areas not yet fully explored such as IP in space activities and the interface of IP with artificial intelligence and recent negotiation processes in WIPO and their outcomes such as the new treaties on genetic resources and traditional knowledge as well as the Riyadh Treaty on industrial designs The concepts explained in the updated edition of this book will be especially welcomed by professionals who need to have a consolidated source on the doctrine and practice of IP on which they can rely Moreover in general this third edition will prove enormously useful for corporate counseling IP practitioners government officials IP agents students and academics

How AI Ate the World Chris Stokel-Walker, 2024-05-09 An excellent starter for those who want to gain an insight into how AI works and why it's likely to shape our lives The Daily Telegraph Artificial intelligence will shake up our lives as thoroughly as the arrival of the internet This popular up to date book charts AI's rise from its Cold War origins to its explosive growth in the 2020s Tech journalist Chris Stokel Walker TikTok Boom and YouTubers goes into the laboratories of

the Silicon Valley innovators making rapid advances in large language models of machine learning He meets the insiders at Google and OpenAI who built Gemini and ChatGPT and reveals the extraordinary plans they have for them Along the way he explores AI's dark side by talking to workers who have lost their jobs to bots and engages with futurologists worried that a man-made super intelligence could threaten humankind He answers critical questions about the AI revolution such as what humanity might be jeopardising and the professions that will win and lose and whether the existential threat technologists Elon Musk and Sam Altman are warning about is realistic or a smokescreen to divert attention away from their growing power How AI Ate the World is a start here guide for anyone who wants to know more about the world we have just entered

Reviews An excellent starter for those who want to gain an insight into how AI works and why it's likely to shape our lives The Daily Telegraph How AI Ate the World prodigiously captures the key issues and concerns around artificial intelligence Azeem Azhar Exponential View From ancient China to Victorian England How AI Ate The World is the story of the characters moments technologies and relationships that populate the rich history of artificial intelligence How AI Ate The World grapples with what the age of automation means for the people living through it Harry Law University of Cambridge A witty engaging book that takes us through AI's bumpy past to help us understand its present and future impacts I highly recommend it to anyone who is impacted by AI tech which is to say everyone on the planet Sasha Luccioni Hugging Face Easily the most comprehensive book on AI I have read so far covering all the key issues Peter Hunt Business Tech Correspondent Evening Standard A comprehensive and compelling look at the technology that's transforming our world It's an essential guide full of surprises to the technology you need to know Matt Navarra social media expert Whether you are new to AI or have been following the AI hype for years Chris Stokel Walker offers an entertaining balance of history context and insight that has something for everyone The story of AI's evolution is a complex one but Stokel Walker tackles it in a clear direct way that will bring you up to speed while helping you grapple with what it all means for individuals the workplace society and the planet Sharon Goldman VentureBeat This book is a wild brilliant ride through centuries of thinking about and decades of developing machines that can learn As a crash course in how we got to this current point of thrilling chaos it will take some beating Whether or not you agree with Stokel Walker's solutions or not How AI Ate The World is essential reading to understand where we are and how we got here Ciaran Martin former CEO UK National Cyber Security Centre Buy the book to discover your future

Rewiring Democracy Bruce Schneier, Nathan E. Sanders, 2025-10-21 From the New York Times bestselling author of The Hacker's Mind and Data Goliath an informative and wide ranging exploration of how AI will alter every facet of democracy and how to harness the technology to distribute rather than concentrate power AI is changing democracy We still get to decide how AI's impact on democracy will go far beyond headline grabbing political deepfakes and automated misinformation Everywhere it will be used it will create risks and opportunities to shake up long standing power structures In this highly readable and advisedly optimistic book Rewiring Democracy security technologist

Bruce Schneier and data scientist Nathan Sanders cut through the AI hype and examine the myriad ways that AI is transforming every aspect of democracy for both good and ill. The authors describe how the sophistication of AI will fulfill demands from lawmakers for more complex legislation, reducing deference to the executive branch and altering the balance of power between lawmakers and administrators. They show how the scale and scope of AI is enhancing civil servants' ability to shape private sector behavior, automating either the enforcement or neglect of industry regulations. They also explain how both lawyers and judges will leverage the speed of AI, upending how we think about law enforcement, litigation, and dispute resolution. Whether these outcomes enhance or degrade democracy depends on how we shape the development and use of AI technologies. Powerful players in private industry and public life are already using AI to increase their influence, and AIs built by corporations don't deliver the fairness and trust required by democratic governance. But steered in the right direction, AI's broad capabilities can augment democratic processes and help citizens build consensus, express their voice, and shake up long-standing power structures. Democracy is facing new challenges worldwide, and AI has become a part of that. It can inform, empower, and engage citizens. It can also disinform, disempower, and disengage them. The choice is up to us. Schneier and Sanders blaze the path forward, showing us how we can use AI to make democracy stronger and more participatory.

Transformers for Natural Language Processing and Computer Vision Denis Rothman, 2024-02-29. The definitive guide to LLMs from architectures, pretraining, and fine-tuning to Retrieval-Augmented Generation (RAG), multimodal AI, risk mitigation, and practical implementations with ChatGPT, Hugging Face, and Google Vertex AI. Get with your book PDF copy. AI Assistant and Next-Gen Reader. Free key features. Compare and contrast 20 models including GPT, BERT, and Llama, and multiple platforms and libraries to find the right solution for your project. Apply RAG with LLMs using customized texts and embeddings. Mitigate LLM risks such as hallucinations using moderation models and knowledge bases. Book Description: *Transformers for Natural Language Processing and Computer Vision*, Third Edition, explores Large Language Model (LLM) architectures, practical applications, and popular platforms. Hugging Face, OpenAI, and Google Vertex AI are used for Natural Language Processing (NLP) and Computer Vision (CV). The book guides you through a range of transformer architectures, from foundation models to generative AI. You'll pretrain and fine-tune LLMs and work through different use cases, from summarization to question-answering systems leveraging embedding-based search. You'll also implement Retrieval-Augmented Generation (RAG) to enhance accuracy and gain greater control over your LLM outputs. Additionally, you'll understand common LLM risks such as hallucinations, memorization, and privacy issues, and implement mitigation strategies using moderation models alongside rule-based systems and knowledge integration. Dive into generative vision transformers and multimodal architectures and build practical applications such as image and video classification. Go further and combine different models and platforms to build AI solutions and explore AI agent capabilities. This book provides you with an understanding of transformer architectures, including strategies for pretraining, fine-tuning, and LLM best practices. What you

will learn Breakdown and understand the architectures of the Transformer BERT GPT T5 PaLM ViT CLIP and DALL E Fine tune BERT GPT and PaLM models Learn about different tokenizers and the best practices for preprocessing language data Pretrain a RoBERTa model from scratch Implement retrieval augmented generation and rules bases to mitigate hallucinations Visualize transformer model activity for deeper insights using BertViz LIME and SHAP Go in depth into vision transformers with CLIP DALL E and GPT Who this book is for This book is ideal for NLP and CV engineers data scientists machine learning practitioners software developers and technical leaders looking to advance their expertise in LLMs and generative AI or explore latest industry trends Familiarity with Python and basic machine learning concepts will help you fully understand the use cases and code examples However hands on examples involving LLM user interfaces prompt engineering and no code model building ensure this book remains accessible to anyone curious about the AI revolution

Architecture in the Age of Artificial Intelligence Neil Leach, 2025-04-17 AI has been unleashed Nothing is going to be the same again Updated to cover all the latest developments *Architecture in the Age of Artificial Intelligence* introduces AI for designers and explores its seismic impact on the future of architecture and design From ChatGPT and smart assistants to groundbreaking diffusion models for video and 3D modelling this updated new edition investigates the profound effects of AI technologies on architectural practice It explores how AI transforms every part of the process from the inspiration and brief to regulations and copyright to performance driven design and looks beyond discussions of software and functionality to ask more fundamental questions too How did AI evolve How does it work What does it tell us about creativity And what does it mean for the very future of the profession itself Written by one of the world's leading experts in the field this book is a must read for all architects wishing to stay at the forefront of the AI revolution

Generating Creative Images With DALL-E 3 Holly Picano, 2024-03-29 Learn to craft fine art prints NFTs and captivating covers for books and magazines with Dall E 3 and ChatGPT Key Features Explore Dall E 3's diverse practical applications across art design education and beyond Master AI generated art creation through step by step tutorials ranging from basic to advanced projects Enhance your prompt crafting skills with the exclusive prompt cheat sheet Purchase of the print or Kindle book includes a free PDF eBook Book Description Unveil the extraordinary capabilities of the groundbreaking AI model DALL E 3 as it transforms text prompts into accurate images This book addresses the challenge of creating meaningful images by writing prompts guiding you step by step through creating stunning visual art regardless of your skill level Prepare to delve deep into the inner workings of DALL E 3's architecture and training process With clear explanations practical tutorials and real world examples that can be easily applied you'll unlock secrets to creating awe inspiring AI generated art from fine art prints to digital designs This book provides comprehensive insights into various lens options camera angles lighting techniques and art movements helping you integrate AI capabilities with your artistic skills You'll also learn to create NFTs that can be monetized and gain invaluable insights into designing compelling covers all within the ethical boundaries of AI generated art And with the invaluable

prompt cheat sheet by your side you'll hone your skills in formulating captivating prompts for diverse purposes By the end of this book you'll have learned how to produce generative AI art at a rapid pace and relatively low cost and push the boundaries of imagination with DALL E 3 What you will learn Master DALL E 3's architecture and training methods Create fine prints and other AI generated art with precision Seamlessly blend AI with traditional artistry Address ethical dilemmas in AI art Explore the future of digital creativity Implement practical optimization techniques for your artistic endeavors Who this book is for Whether you're an artist looking to integrate AI into your work a designer seeking new creative horizons a tech enthusiast intrigued by the intersection of art and artificial intelligence an educator in the fields of art and technology or a curious individual venturing into AI generated art this book is for you For anyone interested in the innovative fusion of creativity and technology the DALL E 3 Guide to AI Artistry offers invaluable insights and practical skills that you can apply right away

How Large Language Models Work Edward Raff, Drew Farris, Stella Biderman, 2025-08-05 Learn how large language models like GPT and Gemini work under the hood in plain English *How Large Language Models Work* translates years of expert research on Large Language Models into a readable focused introduction to working with these amazing systems It explains clearly how LLMs function introduces the optimization techniques to fine tune them and shows how to create pipelines and processes to ensure your AI applications are efficient and error free In *How Large Language Models Work* you will learn how to Test and evaluate LLMs Use human feedback supervised fine tuning and Retrieval Augmented Generation RAG Reducing the risk of bad outputs high stakes errors and automation bias Human computer interaction systems Combine LLMs with traditional ML *How Large Language Models Work* is authored by top machine learning researchers at Booz Allen Hamilton including researcher Stella Biderman Director of AI ML Research Drew Farris and Director of Emerging AI Edward Raff They lay out how LLM and GPT technology works in plain language that's accessible and engaging for all About the Technology Large Language Models put the I in AI By connecting words concepts and patterns from billions of documents LLMs are able to generate the human like responses we've come to expect from tools like ChatGPT Claude and Deep Seek In this informative and entertaining book the world's best machine learning researchers from Booz Allen Hamilton explore foundational concepts of LLMs their opportunities and limitations and the best practices for incorporating AI into your organizations and applications About the Book *How Large Language Models Work* takes you inside an LLM showing step by step how a natural language prompt becomes a clear readable text completion Written in plain language you'll learn how LLMs are created why they make errors and how you can design reliable AI solutions Along the way you'll learn how LLMs think how to design LLM powered applications like agents and Q A systems and how to navigate the ethical legal and security issues What's Inside Customize LLMs for specific applications Reduce the risk of bad outputs and bias Dispel myths about LLMs Go beyond language processing About the Readers No knowledge of ML or AI systems is required About the Author Edward Raff Drew Farris and Stella Biderman are the Director of Emerging AI Director

of AI ML Research and machine learning researcher at Booz Allen Hamilton Table of Contents 1 Big picture What are LLMs 2 Tokenizers How large language models see the world 3 Transformers How inputs become outputs 4 How LLMs learn 5 How do we constrain the behavior of LLMs 6 Beyond natural language processing 7 Misconceptions limits and eminent abilities of LLMs 8 Designing solutions with large language models 9 Ethics of building and using LLMs Get a free eBook PDF or ePub from Manning as well as access to the online liveBook format and its AI assistant that will answer your questions in any language when you purchase the print book

AI AGENTS FOR BEGINNERS Unknown, Artificial intelligence is no longer the future it s the present and you don t need to be a programmer to harness its power AI Agents for Beginners Automate Your Business Without Programming is a practical friendly and empowering guide for entrepreneurs creators and professionals who want to use AI to simplify their work scale their business and save time all without writing a single line of code With clear explanations and real world examples Emilio Castillo shows you step by step how AI agents work what tools you can use for free and how to connect them so they perform tasks for you automatically answering customers generating content analyzing data or managing your social media while you focus on what really matters You ll learn how to design smart workflows create automated systems and build a business that runs efficiently even when you re not around If you ve ever searched for how to use AI to save time how to automate my business without coding or how to make ChatGPT work for me AI Agents for Beginners is the book you ve been waiting for It will help you turn curiosity into action and transform complex technology into something simple practical and profitable Written in Emilio Castillo s signature tone warm accessible and deeply motivating this book will change the way you see technology Because the future doesn t belong only to coders it belongs to thinkers who know how to collaborate with intelligent systems AI Agents for Beginners will show you how to build a modern scalable business where AI works for you not the other way around And when you finish reading you ll realize that mastering artificial intelligence isn t about understanding machines it s about freeing your time to focus on what truly makes you human

Creativity in the Age of AI Jerry Wind,Mukul Pandya,Deborah Yao,2025-10-20 Discover the scientifically proven path to unlocking your creative potential no matter your age profession or background From personal breakthroughs to organizational transformation Creativity in the Age of AI shows you how to leverage cutting edge AI tools to amplify your natural abilities This concise practical guide will help you Gain confidence in your ability to become more creative through understanding the neuroscience behind creative thinking Master 12 powerful approaches to enhance creativity from challenging mental models to interdisciplinary thinking Learn to amplify these approaches using cutting edge AI tools Experiment with these methods to address personal professional and organizational challenges Build a customized dynamic portfolio of creativity tools tailored to your unique needs Overcome common obstacles to implementing creative solutions Draw inspiration from remarkable innovators including Nobel Prize winners artists musicians architects and entrepreneurs This accessible book distills decades of research and practice including principles from the lead author s

popular Wharton MBA creativity course taught for over a decade Build a personalized toolkit for unstoppable innovation in today's challenging times and transform your creative potential into practical solutions enhanced by the power of AI

Augmented Cognition Dylan D. Schmorow, Cali M. Fidopiastis, 2025-05-29 The two volume set LNAI 15778 and LNAI 15779 constitutes the refereed proceedings of the 19th International Conference on Augmented Cognition AC 2025 held as part of the 27th HCI International Conference HCII 2025 which took place in Gothenburg Sweden June 22-27 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 Neurotechnology and eye tracking in augmented cognition augmented cognition and user experience Part II Emotions in augmented cognition enhancing learning and memory

Quick Start Guide to Large Language Models Sinan Ozdemir, 2023-09-20 The Practical Step by Step Guide to Using LLMs at Scale in Projects and Products Large Language Models LLMs like ChatGPT are demonstrating breathtaking capabilities but their size and complexity have deterred many practitioners from applying them In Quick Start Guide to Large Language Models pioneering data scientist and AI entrepreneur Sinan Ozdemir clears away those obstacles and provides a guide to working with integrating and deploying LLMs to solve practical problems Ozdemir brings together all you need to get started even if you have no direct experience with LLMs step by step instructions best practices real world case studies hands on exercises and more Along the way he shares insights into LLMs inner workings to help you optimize model choice data formats parameters and performance You'll find even more resources on the companion website including sample datasets and code for working with open and closed source LLMs such as those from OpenAI GPT-4 and ChatGPT Google BERT T5 and Bard EleutherAI GPT-J and GPT-Neo Cohere the Command family and Meta BART and the LLaMA family Learn key concepts pre-training transfer learning fine-tuning attention embeddings tokenization and more Use APIs and Python to fine-tune and customize LLMs for your requirements Build a complete neural semantic information retrieval system and attach to conversational LLMs for retrieval augmented generation Master advanced prompt engineering techniques like output structuring chain-of-thought and semantic few-shot prompting Customize LLM embeddings to build a complete recommendation engine from scratch with user data Construct and fine-tune multimodal Transformer architectures using open-source LLMs Align LLMs using Reinforcement Learning from Human and AI Feedback RLHF RLAIIF Deploy prompts and custom fine-tuned LLMs to the cloud with scalability and evaluation pipelines in mind By balancing the potential of both open and closed source models Quick Start Guide to Large Language Models stands as a comprehensive guide to understanding and using LLMs bridging the gap between theoretical concepts and practical application Giada Pistilli Principal Ethicist at HuggingFace A refreshing and inspiring resource Jam-packed with practical guidance and clear explanations that leave you smarter about this incredible new field Pete Huang author of The Neuron Register your book for convenient access to downloads updates and/or corrections as they become available See inside book for details

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