

The image features a scenic landscape with dark, jagged mountain peaks in the foreground and a vast, hazy valley filled with clouds in the background. The sky is a warm, orange-brown color, suggesting a sunset or sunrise. The text "OpenAI" is centered in the middle of the image in a white, sans-serif font.

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Building Neo4j-Powered Applications with LLMs Ravindranatha Anthapu, Siddhant Agarwal, 2025-06-20 A comprehensive guide to building cutting edge generative AI applications using Neo4j's knowledge graphs and vector search capabilities Key Features Design vector search and recommendation systems with LLMs using Neo4j GenAI Haystack Spring AI and LangChain4j Apply best practices for graph exploration modeling reasoning and performance optimization Build and consume Neo4j knowledge graphs and deploy your GenAI apps to Google Cloud Purchase of the print or Kindle book includes a free PDF eBook Book Description Embark on an

expert led journey into building LLM powered applications using Retrieval Augmented Generation RAG and Neo4j knowledge graphs Written by Ravindranatha Anthapu Principal Consultant at Neo4j and Siddhant Agrawal a Google Developer Expert in GenAI this comprehensive guide is your starting point for exploring alternatives to LangChain covering frameworks such as Haystack Spring AI and LangChain4j As LLMs large language models reshape how businesses interact with customers this book helps you develop intelligent applications using RAG architecture and knowledge graphs with a strong focus on overcoming one of AI s most persistent challenges mitigating hallucinations You ll learn how to model and construct Neo4j knowledge graphs with Cypher to enhance the accuracy and relevance of LLM responses Through real world use cases like vector powered search and personalized recommendations the authors help you build hands on experience with Neo4j GenAI integrations across Haystack and Spring AI With access to a companion GitHub repository you ll work through code heavy examples to confidently build and deploy GenAI apps on Google Cloud By the end of this book you ll have the skills to ground LLMs with RAG and Neo4j optimize graph performance and strategically select the right cloud platform for your GenAI applications What you will learn Design populate and integrate a Neo4j knowledge graph with RAG Model data for knowledge graphs Integrate AI powered search to enhance knowledge exploration Maintain and monitor your AI search application with Haystack Use LangChain4j and Spring AI for recommendations and personalization Seamlessly deploy your applications to Google Cloud Platform Who this book is for This LLM book is for database developers and data scientists who want to leverage knowledge graphs with Neo4j and its vector search capabilities to build intelligent search and recommendation systems Working knowledge of Python and Java is essential to follow along Familiarity with Neo4j the Cypher query language and fundamental concepts of databases will come in handy

[A Simple Guide to Retrieval Augmented Generation](#) Abhinav Kimothi,2025-07-01 Everything you need to know about Retrieval Augmented Generation in one human friendly guide Augmented Generation or RAG enhances an LLM s available data by adding context from an external knowledge base so it can answer accurately about proprietary content recent information and even live conversations RAG is powerful and with A Simple Guide to Retrieval Augmented Generation it s also easy to understand and implement In A Simple Guide to Retrieval Augmented Generation you ll learn The components of a RAG system How to create a RAG knowledge base The indexing and generation pipeline Evaluating a RAG system Advanced RAG strategies RAG tools technologies and frameworks A Simple Guide to Retrieval Augmented Generation gives an easy yet comprehensive introduction to RAG for AI beginners You ll go from basic RAG that uses indexing and generation pipelines to modular RAG and multimodal data from images spreadsheets and more About the Technology If you want to use a large language model to answer questions about your specific business you re out of luck The LLM probably knows nothing about it and may even make up a response Retrieval Augmented Generation is an approach that solves this class of problems The model first retrieves the most relevant pieces of information from your knowledge stores search index vector database or a set of

documents and then generates its answer using the user's prompt and the retrieved material as context. This avoids hallucination and lets you decide what it says.

About the Book *A Simple Guide to Retrieval Augmented Generation* is a plain English guide to RAG. The book is easy to follow and packed with realistic Python code examples. It takes you from concept by concept from your first steps with RAG to advanced approaches exploring how tools like LangChain and Python libraries make RAG easy. And to make sure you really understand how RAG works you'll build a complete system yourself even if you're new to AI.

What's Inside RAG components and applications, Evaluating RAG systems, Tools and frameworks for implementing RAG.

About the Readers For data scientists, engineers, and technology managers, no prior LLM experience required. Examples use simple, well-annotated Python code.

About the Author Abhinav Kimothi is a seasoned data and AI professional. He has spent over 15 years in consulting and leadership roles in data science, machine learning, and AI and currently works as a Director of Data Science at Sigmoid.

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Artificial Intelligence in Architecture and the Built Environment Michal Sourek, 2025-01-22

Imagine if every architect had an apprentice who could consistently observe and understand their intentions, take over routine tasks, and monitor technical, environmental, and economic constraints. This apprentice would continually improve, freeing the architect to concentrate on truly creative work. This book outlines a plan to turn this vision into reality. It evaluates the development of artificial intelligence from its inception to the present, focusing on the last two decades of applying AI in architectural design and planning. The current state of architectural practice is also examined. Integrating architecture, computer science, AI, robotics, economics, law, neurobiology, and philosophy, the vision is built on three key premises: i) authentic, poetic creativity that transcends parameterization and algorithmizing; ii) innovative learning strategies and training approaches not yet applied concerning architectural design; and iii) the convergence of architecture's inherent spatiality with virtual reality technology and new theories of human thinking and intelligence, poised for implementation in machine learning.

Pretrain Vision and Large Language Models in Python Emily Webber, Andrea Olgiati, 2023-05-31

Master the art of training vision and large language models with conceptual fundamentals and industry expert guidance. Learn about AWS services and design patterns with relevant coding examples.

Key Features

- Learn to develop, train, tune, and apply foundation models with optimized end-to-end pipelines.
- Explore large-scale distributed training for models and datasets with AWS and SageMaker examples.
- Evaluate, deploy, and operationalize your custom models with bias detection and pipeline monitoring.

Book Description Foundation models have forever changed machine learning. From BERT to ChatGPT, CLIP to Stable Diffusion, when billions of parameters are combined with large datasets and hundreds to

thousands of GPUs the result is nothing short of record breaking The recommendations advice and code samples in this book will help you pretrain and fine tune your own foundation models from scratch on AWS and Amazon SageMaker while applying them to hundreds of use cases across your organization With advice from seasoned AWS and machine learning expert Emily Webber this book helps you learn everything you need to go from project ideation to dataset preparation training evaluation and deployment for large language vision and multimodal models With step by step explanations of essential concepts and practical examples you ll go from mastering the concept of pretraining to preparing your dataset and model configuring your environment training fine tuning evaluating deploying and optimizing your foundation models You will learn how to apply the scaling laws to distributing your model and dataset over multiple GPUs remove bias achieve high throughput and build deployment pipelines By the end of this book you ll be well equipped to embark on your own project to pretrain and fine tune the foundation models of the future What you will learn Find the right use cases and datasets for pretraining and fine tuning Prepare for large scale training with custom accelerators and GPUs Configure environments on AWS and SageMaker to maximize performance Select hyperparameters based on your model and constraints Distribute your model and dataset using many types of parallelism Avoid pitfalls with job restarts intermittent health checks and more Evaluate your model with quantitative and qualitative insights Deploy your models with runtime improvements and monitoring pipelines Who this book is for If you re a machine learning researcher or enthusiast who wants to start a foundation modelling project this book is for you Applied scientists data scientists machine learning engineers solution architects product managers and students will all benefit from this book Intermediate Python is a must along with introductory concepts of cloud computing A strong understanding of deep learning fundamentals is needed while advanced topics will be explained The content covers advanced machine learning and cloud techniques explaining them in an actionable easy to understand way

Chambers's Journal of Popular Literature, Science and Arts ,1876 The Academy and Literature Charles Edward Cutts Birch Appleton,Charles Edward Doble,James Sutherland Cotton,Charles Lewis Hind,William Teignmouth Shore,Alfred Bruce Douglas,Ellis Ashmead-Bartlett,Thomas William Hodgson Crosland,1899 □□ □□□□ 7□□ □□□□□ /2025 □266□ □□□□□□,2025-06-15 2000 3500 25 QR Code 2000 3500 Words Prases 2025 Turner Pretty Privilege A Pretty Big Advantage Time s Up Stop Hugging at the New Zealand Airport The Last Bear Get a Fresh Look with a New Hairstyle check Time s Up Stop Hugging at the New Zealand Airport The Simple Sweet Treat of Dalgona SUP The Sport for Everyone Going through e Gates at the Airport Seeing Double The Celebrity Look Alike Craze Get Ready for a Wild Ride on E Scooters Summer Clothing The Silent Art of Silhouettes Pretty Privilege A Pretty Big Advantage The Impact of Generative AI Tools on Student Learning AI The War on Extreme Heat Sentence Translation *Box Office* ,1948 **The War Cry** ,1957 **ChatGPT Atlas Browser Guide 2025** Konstantin Titov,2025-10-22 ChatGPT Atlas Browser Guide 2025 How to Use OpenAI s AI Browser Agent Mode and Browser Memories on macOS Setup Privacy Controls and Productivity

Workflows Be first move fast ChatGPT Atlas is OpenAI's new chat first web browser and this is one of the first hands on guides written for real users who want results not hype Whether you're a student creator analyst or team lead this book shows you exactly how to install Atlas on macOS set it up in minutes and turn everyday browsing into automated private high leverage workflows Atlas brings ChatGPT to any page adds optional browser memories and introduces Agent Mode so it can take actions for you with guardrails you control What you'll learn step by step Install set up on macOS sign in import passwords bookmarks history and tune the new tab Ask ChatGPT experience for speed Search less finish more use on page chat for instant summaries clean citations comparisons and follow up questions without copy paste context juggling Stay in control master Incognito the address bar page visibility toggle and data controls so Atlas only sees what you allow Learn how memories are optional visible archivable and deletable Agent Mode safely let ChatGPT click around for you researching planning and completing routine tasks while respecting built in limits e.g. it can't run code or install extensions and your approvals Power workflows research briefs competitor scans shopping carts study aids and executive summaries you can trust For families teams understand parental controls and Business Enterprise basics so you can enable features responsibly Who this book is for Students researchers who want faster reading better notes and self tests as they learn Professionals who live in the browser and need reliable automation for docs data and decisions Creators marketers who need quick comparisons curated sources and production ready summaries Team admins parents who care about privacy transparency and safe defaults Why this guide why now Atlas changes the center of gravity from URLs and tabs to conversation and action It's chat powered browsing with privacy controls and optional memories plus Agent Mode when you want hands off execution all shipping now on macOS with Windows iOS and Android experiences coming next We distill the launch details and best practices into a practical zero fluff playbook you can use on day one Up to date launch window coverage Written around the current release macOS availability Agent Mode preview for Plus Pro Business and the latest data controls parental controls so you're learning features that exist today not someday If you're ready to browse less and accomplish more ChatGPT Atlas Browser Guide 2025 is your fast start to the web's chat first future

OpenAI's O1 Model Carl W Pratt, 2024-09-14 Are you

ready to dive into the future of artificial intelligence In OpenAI's o1 Model Breaking Through Agentic Workflows and Human Like Reasoning you'll embark on an electrifying journey into the cutting edge technology that is reshaping how we think about AI This isn't just another AI upgrade it's a revolution OpenAI's o1 model is here to change everything from how we interact with machines to how we solve problems in coding physics and beyond Have you ever wondered what it would be like to have an AI that thinks like a human adapts to your needs and handles even the most complex tasks with ease This book pulls back the curtain on OpenAI's most advanced model yet revealing how o1 is not only redefining AI workflows but also simplifying them for everyday use Whether you're a tech enthusiast a professional seeking the latest in AI advancements or someone who simply wants to understand how the future is being shaped this book is for you Why should you read this

book Because the o1 model represents a monumental shift in AI technology It moves beyond basic prompt based systems to autonomous reasoning and goal first thinking This book will show you how o1 is leading the charge in AI research breaking down its remarkable features and real world applications in a way that s engaging and easy to understand From coding breakthroughs to creative tasks o1 is setting a new standard and you ll see why this matters to you and your future What will you discover inside You ll learn how o1 s agentic workflows make complex tasks simple how its human like reasoning is pushing the boundaries of what AI can achieve and why its competitive pricing is a game changer You ll also uncover how o1 is outperforming its rivals and making AI accessible for everyone from small businesses to large enterprises This is the inside story of how OpenAI is shaping the future and it s a future you don t want to miss When is the right time to explore this Now AI is evolving rapidly and understanding models like o1 will give you a front row seat to the technology that s driving the next era of innovation If you re passionate about staying ahead of the curve learning about the tools that will soon be essential in every industry and seeing how AI can enhance your work and life this book is your guide Who needs to read this book Whether you re an AI researcher a tech entrepreneur a developer or someone simply curious about the future of technology this book is for you If you want to understand how AI is moving from a tool we use to a partner we collaborate with then OpenAI s o1 Model is a must read The future of AI is unfolding before your eyes don t get left behind Get your copy now and take the first step toward understanding the AI revolution that s just getting started OpenAI s o1 model is more than technology it s the key to unlocking a future where machines don t just work for us they think with us Discover Learn Lead Be part of the AI revolution today

Exploring the OpenAI Playground Aaron Cockman, 2025-04-13 What if all you need to generate great ideas and develop interesting plot lines all the coding you do is nothing but a few prompts away from perfection or even building your own AI apps What do I mean when I think about how AI can drive creativity scale productivity and cement forks in the ground of industries AI is no longer a future but is present and disrupting how we work create and innovate This Ultimate Guide to OpenAI Playground Open the Creativity Box with AI is written from my heart and is your best friend I hope you ve discovered the best hacks from OpenAI s state of the art models Whether you are a writer entrepreneur coder or just plain curious about AI this book is for you and will help you unleash the power of OpenAI s Playground What you ll find inside Create content With Ease Your new AI writing buddy will take your writing to the next level from blog posts to poetry Make AI Applications with OpenAI models Make your chatbots text summarizers etc Code with an AI writing tool Simplify your coding process using intelligent code completion Efficiently refine AI prompts for better results Master how to write prompts that produce exact and creative responses AI Bias and Mitigating Them for Fairness Take a tour of ethical issues and responsible practices of AI Repetitive tasks Automate Save time on AI chat content generation etc Fix and tidy up the outputs generated by AI Automation of quality checking further polish Who is this book for Writers and content makers who want to use AI to get more creative People interested in programmers and coding are

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GPT-4o J Andy Peters, 2024-11-19 In **GPT 4o Predicted Outputs and Why It's Faster Than Ever Before** dive into the groundbreaking world of predictive AI and learn how OpenAI's latest feature is transforming the way we work create and innovate Whether you're a developer refining code a content creator updating blogs or a data scientist working with complex datasets this book reveals how to unlock unparalleled speed precision and efficiency with GPT 4o Gone are the days of waiting endlessly for AI to process tasks token by token With Predicted Outputs you can guide the model with hints enabling it to skip the redundant and focus on what truly matters delivering results in seconds Learn why a task that once took 70 seconds can now be completed in 20 and how this revolutionary approach is reshaping workflows across industries This isn't just another book about AI it's your roadmap to leveraging one of the most advanced tools in artificial intelligence Inside you'll discover How developers are cutting debugging and refactoring times in half The secret to making article and blog updates seamless and consistent Why data analysts can now tackle massive datasets with unprecedented ease The hidden potential of streaming mode for real time results and dynamic workflows Whether you're a tech enthusiast an AI professional or simply curious about how AI is changing the world this book is for you It's not just about the technology it's about what it means for you faster workdays smarter outputs and a future where AI truly complements human potential Why Read This Book If you've ever wondered how to get more done in less time while staying on the cutting edge of technology this is your guide You'll see how AI can become your greatest ally taking the tedious out of the to do list and leaving you free to focus on what truly matters Don't just stay informed stay ahead Grab your copy of **GPT 4o Predicted Outputs and Why It's Faster Than Ever Before** and discover how to revolutionize your workflow today Your future is faster smarter and waiting for you are you ready

How China's Deepseek R1 Outpaced OpenAI Daniella E Jason, 2025-01-25 Are you ready to uncover the story that has shaken the AI industry to its core How China's DeepSeek R1 Outpaced OpenAI Cracking the AI Code takes you inside the groundbreaking battle between proprietary AI powerhouses and a revolutionary open source challenger that has redefined the rules of artificial intelligence From the labs of OpenAI long considered the pinnacle of AI innovation to the unexpected rise of China's DeepSeek R1 this book reveals the thrilling narrative behind how a side project with limited resources stunned the world DeepSeek R1 didn't just compete it leveled the playing field delivering cutting edge performance rivaling OpenAI's most advanced models like GPT 4 all while being free and accessible to everyone But how did they do it What makes R1 so extraordinary And what does this mean for the future of artificial intelligence innovation and global competition This book dives deep into the concepts behind R1's success from its revolutionary System 2 Thinking capabilities to the

power of model distillation that made high performance AI smaller faster and more affordable Whether you re an AI enthusiast a tech entrepreneur a developer or simply someone curious about the forces shaping our future this book will answer the pressing questions Why is DeepSeek R1 the model everyone is talking about What does its open source nature mean for innovation and ethics How has this breakthrough challenged the dominance of AI giants like OpenAI What are the risks and rewards of making such advanced technology accessible to all Beyond the technology this is a story of power dynamics collaboration and the shifting tides of global innovation It s about the clash between exclusivity and transparency the possibilities of democratized AI and the ethical dilemmas that come with creating machines that think like us This is more than just a book it s an invitation to witness the future unfolding Whether you re looking for inspiration insights or a deeper understanding of how AI will reshape industries and societies this is the book you need to read right now Discover how DeepSeek R1 cracked the AI code and why it s changing everything The future of artificial intelligence is here grab your copy today and be part of the revolution

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Book Description Generative Pre trained Transformer 3 GPT 3 is a highly advanced language model from OpenAI that can generate written text that is virtually indistinguishable from text written by humans Whether you have a technical or non technical background this book will help you understand and start working with GPT 3 and the OpenAI API If you want to get hands on with leveraging artificial intelligence for natural language processing NLP tasks this easy to follow book will help you get started Beginning with a high level introduction to NLP and GPT 3 the book takes you through practical examples that show how to leverage the OpenAI API and GPT 3 for text generation classification and semantic search You ll explore the capabilities of the OpenAI API and GPT 3 and find out which NLP use cases GPT 3 is best suited for You ll also learn how to use the API and optimize requests for the best possible results With examples focusing on the OpenAI Playground and easy to follow JavaScript and Python code samples the book illustrates the possible applications of GPT 3 in production By the end of this book you ll understand the best use cases for GPT 3 and how to integrate the OpenAI API in your applications for a wide array of NLP tasks What you will learn Understand what GPT 3 is and how it can be used for various NLP tasks Get a high level introduction to GPT 3 and the OpenAI API Implement JavaScript and Python code examples that call the OpenAI API Structure GPT 3 prompts and options to get the best possible results Select the right GPT 3 engine or model to optimize for speed and cost efficiency Find out which use cases would not be suitable for GPT 3 Create a GPT 3 powered knowledge base application that follows OpenAI guidelines Who this book is for Exploring GPT 3 is for anyone interested in natural language processing or learning GPT 3 with or without a technical background Developers

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for Businesses with GPT, DALL-E, RAG, and AI Agents Sriram Subramanian, 2025-03-11 Master OpenAI and Unlock the Future of AI Powered Innovation Key Features In depth exploration of OpenAI tools models and enterprise use cases Hands on projects with extensive code samples for practical learning Real world case studies with ethical AI insights and best practices Book Description OpenAI is transforming industries with cutting edge AI models redefining how businesses operate innovate and compete Mastering OpenAI for Enterprise is your definitive guide to harnessing the power of OpenAI s groundbreaking technologies including GPT models DALL E and more Designed for AI engineers developers and business leaders this book offers an in depth understanding of OpenAI s tools and their real world applications in enterprise settings This hands on guide provides a structured learning path featuring practical code samples step by step implementations and industry case studies that bridge theory with practice Whether you re building intelligent chatbots leveraging AI for automation or exploring generative AI for creative solutions this book equips you with the knowledge and skills to seamlessly integrate OpenAI into your workflows Ethical AI development and responsible implementation are also key themes ensuring that innovation is balanced with accountability As AI continues to evolve at an unprecedented pace mastering OpenAI is no longer optional it s essential The future belongs to those who can effectively leverage these technologies Don t get left behind equip yourself with the expertise needed to stay ahead in the AI revolution What you will learn Gain expertise in OpenAI s models APIs and enterprise applications Build intelligent chatbots and virtual assistants using ChatGPT Implement ethical AI practices for responsible and fair deployment Optimize and deploy OpenAI models for scalable business solutions Analyze real world case studies to drive AI powered innovation Leverage generative AI to automate enhance and transform workflows *ChatGPT* ,2023

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