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Openai Best Open Now:

Programming Large Language Models with Azure Open AI Francesco Esposito, 2024-04-03 Use LLMs to build better business software applications Autonomously communicate with users and optimize business tasks with applications built to make the interaction between humans and computers smooth and natural Artificial Intelligence expert Francesco Esposito illustrates several scenarios for which a LLM is effective crafting sophisticated business solutions shortening the gap between humans and software equipped machines and building powerful reasoning engines Insight into prompting and conversational programming with specific techniques for patterns and frameworks unlock how natural language can also lead to a new advanced approach to coding Concrete end to end demonstrations featuring Python and ASP NET Core showcase versatile patterns of interaction between existing processes APIs data and human input Artificial Intelligence expert Francesco Esposito helps you Understand the history of large language models and conversational programming Apply prompting as a new way of coding Learn core prompting techniques and fundamental use cases Engineer advanced prompts including connecting LLMs to data and function calling to build reasoning engines Use natural language in code to define workflows and orchestrate existing APIs Master external LLM frameworks Evaluate responsible AI security privacy and accuracy concerns Explore the AI regulatory landscape Build and implement a personal assistant Apply a retrieval augmented generation RAG pattern to formulate responses based on a knowledge base Construct a conversational user interface For IT Professionals and Consultants For software professionals architects lead developers programmers and Machine Learning enthusiasts For anyone else interested in natural language processing or real world applications of human like language in software

Supremacy Parmy Olson, 2024-09-10 WINNER OF THE THE FINANCIAL TIMES AND SCHRODERS 2024 BUSINESS BOOK OF THE YEAR AWARD In November of 2022 a webpage was posted online with a simple text box It was an AI chatbot called ChatGPT and was unlike any app people had used before It was more human than a customer service agent more convenient than a Google search Behind the scenes battles for control and prestige between the world s two leading AI firms OpenAI and DeepMind who now steers Google s AI efforts has remained elusive until now In **Supremacy** Olson tech writer at Bloomberg tells the astonishing story of the battle between these two AI firms their struggles to use their tech for good and the hazardous direction they could go as they serve two tech Goliaths whose power is unprecedented in history The story focuses on the continuing rivalry of two key CEOs at the center of it all who cultivated a religion around their mission to build god like super intelligent machines Sam Altman CEO of OpenAI and Demis Hassabis the CEO of DeepMind **Supremacy** sharply alerts readers to the real threat of artificial intelligence that its top creators are ignoring the profit driven spread of flawed and biased technology into industries education media and more With exclusive access to a network of high ranking sources Parmy Olson uses her 13 years of experience covering technology to bring to light the exploitation of the greatest invention in human history and how it will impact us all

Open AI and

Computational Intelligence for Society 5.0 Pandey, Rajiv, Srivastava, Nidhi, Prasad, Rajesh, Prasad, Jayashree, Garcia, Manuel B., 2024-11-29 As technology rapidly advances the complexity of societal challenges grows necessitating intelligent solutions that can adapt and evolve However developing such solutions requires a deep understanding of computational intelligence CI and its application in addressing real world problems Moreover ethical considerations surrounding AI such as bias and accountability are crucial to ensure responsible development and deployment of intelligent systems Open AI and Computational Intelligence for Society 5.0 offers a comprehensive exploration of CI providing insights into intelligent systems theory design and application This book is a practical guide for scientists engineers and researchers seeking to develop thoughtful solutions for complex societal issues Integrating disruptive technologies and frameworks illuminates the path toward creating intelligent machines collaborating with humans to enhance problem solving and improve quality of life

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

Building LLMs for Production Louis-François Bouchard, Louie Peters, 2024-05-21 This is the most comprehensive textbook to date on building LLM applications all essential topics in an AI Engineer's toolkit Jerry Liu Co-founder and CEO of LlamaIndex THE BOOK WAS UPDATED ON OCTOBER 2024 With amazing feedback from industry leaders this book is an end-to-end resource for anyone looking to enhance their skills or dive into the world of AI and develop their understanding of Generative AI and Large Language Models LLMs It explores various methods to adapt foundational LLMs to specific use cases with enhanced accuracy reliability and scalability Written by over 10 people on our Team at Towards AI and curated by experts from Activerloop LlamaIndex Mila and more it is a roadmap to the tech stack of the future The book aims to guide developers through creating LLM products ready for production leveraging the potential of AI across various industries It is tailored for readers with an intermediate knowledge of Python What's Inside this 470-page Book Updated October 2024 Hands-on Guide on LLMs Prompting Retrieval Augmented Generation RAG Fine-tuning Roadmap for Building Production Ready Applications using LLMs Fundamentals of LLM Theory Simple to Advanced LLM Techniques Frameworks Code Projects with Real World Applications Colab Notebooks that you can run right away Community access and our own AI Tutor Table of Contents Chapter I Introduction to Large Language Models Chapter II LLM Architectures Landscape Chapter III LLMs in Practice Chapter IV Introduction to Prompting Chapter V Retrieval Augmented Generation Chapter VI Introduction to LangChain LlamaIndex Chapter VII Prompting with LangChain Chapter VIII Indexes Retrievers and Data Preparation Chapter IX Advanced RAG Chapter X Agents Chapter XI Fine Tuning Chapter XII Deployment and Optimization Whether you're looking to enhance your skills or dive into the world of AI for the first time as a programmer or software student our book is for you From the basics of LLMs to mastering fine-tuning and RAG for scalable reliable AI applications we guide you every step of the way

LLMs in Production Christopher Brousseau, Matt Sharp, 2025-02-18 Goes beyond academic discussions deeply into the applications layer of Foundation Models This practical book offers clear examples rich explanations of how LLMs work how you can interact with them and how to integrate LLMs into your own applications Find out what makes LLMs so

different from traditional software and ML discover best practices for working with them out of the lab and dodge common pitfalls with experienced advice In LLMs in Production you will Grasp the fundamentals of LLMs and the technology behind them Evaluate when to use a premade LLM and when to build your own Efficiently scale up an ML platform to handle the needs of LLMs Train LLM foundation models and finetune an existing LLM Deploy LLMs to the cloud and edge devices using complex architectures like PEFT and LoRA Build applications leveraging the strengths of LLMs while mitigating their weaknesses LLMs in Production delivers vital insights into delivering MLOps so you can easily and seamlessly guide one to production usage Inside you ll find practical insights into everything from acquiring an LLM suitable training dataset building a platform and compensating for their immense size Plus tips and tricks for prompt engineering retraining and load testing handling costs and ensuring security Foreword by Joe Reis About the technology Most business software is developed and improved iteratively and can change significantly even after deployment By contrast because LLMs are expensive to create and difficult to modify they require meticulous upfront planning exacting data standards and carefully executed technical implementation Integrating LLMs into production products impacts every aspect of your operations plan including the application lifecycle data pipeline compute cost security and more Get it wrong and you may have a costly failure on your hands About the book LLMs in Production teaches you how to develop an LLMOps plan that can take an AI app smoothly from design to delivery You ll learn techniques for preparing an LLM dataset cost efficient training hacks like LORA and RLHF and industry benchmarks for model evaluation Along the way you ll put your new skills to use in three exciting example projects creating and training a custom LLM building a VSCode AI coding extension and deploying a small model to a Raspberry Pi What s inside Balancing cost and performance Retraining and load testing Optimizing models for commodity hardware Deploying on a Kubernetes cluster About the reader For data scientists and ML engineers who know Python and the basics of cloud deployment About the author Christopher Brousseau and Matt Sharp are experienced engineers who have led numerous successful large scale LLM deployments

Azure AI Fundamentals (AI-900) Study Guide Tom

Taulli,2025-05-06 Businesses that want to stay competitive know that AI has become a crucial technology and so do their employees looking to grow their careers Earning Microsoft s AI 900 Azure AI Fundamentals certification proves your proficiency with foundational AI concepts This study guide equips you with the knowledge needed to pass the AI 900 exam whether you re an IT professional a data analyst or a student looking to break into the AI field Packed with clear explanations real world examples exam tips and practice questions this comprehensive handbook is your go to resource for mastering the Azure AI platform and advancing your career You ll explore key exam topics including machine learning computer vision and generative AI while gaining practical insights into leveraging Azure s powerful AI tools

Prompt Engineering for

Generative AI James Phoenix, Mike Taylor, 2024-05-16 Large language models LLMs and diffusion models such as ChatGPT and Stable Diffusion have unprecedented potential Because they have been trained on all the public text and images on the

internet they can make useful contributions to a wide variety of tasks And with the barrier to entry greatly reduced today practically any developer can harness LLMs and diffusion models to tackle problems previously unsuitable for automation With this book you ll gain a solid foundation in generative AI including how to apply these models in practice When first integrating LLMs and diffusion models into their workflows most developers struggle to coax reliable enough results from them to use in automated systems Authors James Phoenix and Mike Taylor show you how a set of principles called prompt engineering can enable you to work effectively with AI Learn how to empower AI to work for you This book explains The structure of the interaction chain of your program s AI model and the fine grained steps in between How AI model requests arise from transforming the application problem into a document completion problem in the model training domain The influence of LLM and diffusion model architecture and how to best interact with it How these principles apply in practice in the domains of natural language processing text and image generation and code

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

Revolutionizing the Service Industry With OpenAI Models Demir, Mahmut,Dalgic, Ali,2024-04-23 The pressing challenges businesses face are rising including the ethical considerations associated with artificial intelligence AI in the service industry Revolutionizing the Service Industry with OpenAI Models is a book rooted in real world examples and expert insights which provides practical solutions by implementing the latest technology and explores the impact of AI powered conversational agents on the service sector The book commences with an enlightening introduction that underscores the transformative power of ChatGPT and OpenAI models setting the stage for a deep dive into their role in reshaping the service industry Through a systematic examination of current challenges and opportunities the text unveils the innovations brought about by ChatGPT in customer service revealing its potential to enhance response times handle complex inquiries and deliver personalized experiences on an unprecedented scale Delving into designing conversational user interfaces addressing language barriers and deploying AI in sensitive sectors like healthcare the book guides readers through responsible and effective implementation It balances the exploration of AI driven automation with understanding the importance of maintaining a human touch in service interactions This book is ideal for business owners managers and decision makers seeking to leverage AI powered conversational agents for strategic advantage Simultaneously AI enthusiasts researchers and developers will find invaluable insights into the current issues best practices and future trends in AI driven customer interactions

GPT-3: Talking with an Artificial Intelligence (English Edition) Michael R. dos Santos,2022-03-10 This book is a full conversation with the Artificial Intelligence GPT 3 from Open AI This was made using the beta version of their platform that is free for now but can be extend if the user pays for its use In this talk we spoke about physics mathematics chemistry about life the universe colors

music academic research quantum theory machine learning consciousness and many other topic regarding all types of subjects The reader is compelled to think and discuss with others this IA has truly consciousness Maybe she or he give this answer themselves *Michigan Farmer* ,1854 *Artificial Intelligence* Charles Jennings,2019-05-08 Self learning machines called AIs are popping up all around us They re real and really important They re affecting our lives as workers consumers investors citizens patients and students AIs bring huge promise but also existential risk The biggest risk isn t killer robots it s the renegade leaders despots and unrestrained hackers everywhere we should worry about Charles Jennings insightful new book *Artificial Intelligence The Rise of the Lightspeed Learners* presents sides of AI most people have never even considered before That surprises are a main product of AIs That AI cybersecurity is much more critical than traditional IT security That as Vladimir Putin put it the country that leads in AI will control the world Jennings blends insights into Silicon Valley Washington D C and Beijing with insider AI stories irreverent humor and strong opinions He explores the global AI ecosystem from Cambridge to Beijing and provides a stark assessment of AI activity in China where he lived for two years working with senior government officials He claims that the U S and China are in an AI horserace that will be the most important technology contest ever with the outcome still very much in doubt Consisting of stories musings interviews and more it provides a timely and accessible explanation of AI and its key issues to the general reading public **GPT-3** Sandra Kublik,Shubham Saboo,2022-07-11 GPT 3 NLP with LLMs is a unique pragmatic take on Generative Pre trained Transformer 3 the famous AI language model launched by OpenAI in 2020 This model is capable of tackling a wide array of tasks like conversation text completion and even coding with stunningly good performance Since its launch the API has powered a staggering number of applications that have now grown into full fledged startups generating business value This book will be a deep dive into what GPT 3 is why it is important what it can do what has already been done with it how to get access to it and how one can build a GPT 3 powered product from scratch This book is for anyone who wants to understand the scope and nature of GPT 3 The book will evaluate the GPT 3 API from multiple perspectives and discuss the various components of the new burgeoning economy enabled by GPT 3 This book will look at the influence of GPT 3 on important AI trends like creator economy no code and Artificial General Intelligence and will equip the readers to structure their imaginative ideas and convert them from mere concepts to reality **Real-World Applications of AI Innovation** Mallik, Saurav,Mathivanan, Sandeep Kumar,Sangeetha, S.K.B.,Soufiene, Ben Othman,2024-12-02 Artificial intelligence AI innovation works to transform various sectors driving efficiency enhancing decision making and creating new opportunities for growth From healthcare and finance to agriculture and entertainment real world applications of AI are demonstrating its potential to solve complex problems and improve everyday life As these technologies continue to evolve further exploration into the integration of AI into different fields may allow for a more efficient sustainable and innovative future *Real World Applications of AI Innovation* explores the latest advancements and practical applications of artificial intelligence across various domains It delves into

cutting edge AI methodologies algorithms and technologies providing readers with a deep understanding of the current landscape and future trends in AI research and development This book covers topics such as smart farming machine learning and deep neural networks and is a useful resource for computer engineers scientists medical professionals agriculturalists educators researchers academicians and business owners

The Fourth Age Byron Reese,2018-04-24 The Fourth Age not only discusses what the rise of A I will mean for us it also forces readers to challenge their preconceptions And it manages to do all this in a way that is both entertaining and engaging The New York Times As we approach a great turning point in history when technology is poised to redefine what it means to be human The Fourth Age offers fascinating insight into AI robotics and their extraordinary implications for our species In The Fourth Age Byron Reese makes the case that technology has reshaped humanity just three times in history 100 000 years ago we harnessed fire which led to language 10 000 years ago we developed agriculture which led to cities and warfare 5 000 years ago we invented the wheel and writing which lead to the nation state We are now on the doorstep of a fourth change brought about by two technologies AI and robotics The Fourth Age provides extraordinary background information on how we got to this point and how rather than what we should think about the topics we ll soon all be facing machine consciousness automation employment creative computers radical life extension artificial life AI ethics the future of warfare superintelligence and the implications of extreme prosperity By asking questions like Are you a machine and Could a computer feel anything Reese leads you through a discussion along the cutting edge in robotics and AI and provides a framework by which we can all understand discuss and act on the issues of the Fourth Age and how they ll transform humanity

Technology and the Rise of Great Powers Jeffrey Ding,2024-08-20 Technological revolutions have long been understood as one of the key factors affecting the rise of great powers Yet when these dynamics have been studied the focus tends to be on the moment of innovation where was a key technology invented In this book Jeffrey Ding argues that it s not innovation but rather the way a technology diffuses through a country that determines whether and how it strengthens the state The result is a new way to consider how technology and power have played out over history and what this might mean for the future To make this case Ding first outlines a new theory that centers on not the creation of new technology but its spread across society looking specifically at the role of education in promoting technological skill and literacy He then shows how this approach changes our understanding of three canonical cases Britian s rise during the first industrial revolution America s rise during the second industrial revolution and Japan s rise and decline during the third industrial revolution He then expands out to consider what this theory would predict for the coming competition between the United States and China in an AI driven fourth industrial revolution The result is an ambitious wide ranging take on how technology shapes world order Provided by publisher

Data Labeling in Machine Learning with Python Vijaya Kumar Suda,2024-01-31 Take your data preparation machine learning and GenAI skills to the next level by learning a range of Python algorithms and tools for data labeling Key Features Generate labels for regression in

scenarios with limited training data Apply generative AI and large language models LLMs to explore and label text data Leverage Python libraries for image video and audio data analysis and data labeling Purchase of the print or Kindle book includes a free PDF eBook Book Description Data labeling is the invisible hand that guides the power of artificial intelligence and machine learning In today's data driven world mastering data labeling is not just an advantage it's a necessity Data Labeling in Machine Learning with Python empowers you to unearth value from raw data create intelligent systems and influence the course of technological evolution With this book you'll discover the art of employing summary statistics weak supervision programmatic rules and heuristics to assign labels to unlabeled training data programmatically As you progress you'll be able to enhance your datasets by mastering the intricacies of semi supervised learning and data augmentation Venturing further into the data landscape you'll immerse yourself in the annotation of image video and audio data harnessing the power of Python libraries such as seaborn matplotlib cv2 librosa openai and langchain With hands on guidance and practical examples you'll gain proficiency in annotating diverse data types effectively By the end of this book you'll have the practical expertise to programmatically label diverse data types and enhance datasets unlocking the full potential of your data What you will learn Excel in exploratory data analysis EDA for tabular text audio video and image data Understand how to use Python libraries to apply rules to label raw data Discover data augmentation techniques for adding classification labels Leverage K means clustering to classify unsupervised data Explore how hybrid supervised learning is applied to add labels for classification Master text data classification with generative AI Detect objects and classify images with OpenCV and YOLO Uncover a range of techniques and resources for data annotation Who this book is for This book is for machine learning engineers data scientists and data engineers who want to learn data labeling methods and algorithms for model training Data enthusiasts and Python developers will be able to use this book to learn data exploration and annotation using Python libraries Basic Python knowledge is beneficial but not necessary to get started

Developing Apps with GPT-4 and ChatGPT
Olivier Caelen, Marie-Alice Blete, 2024-07-10 This book provides an ideal guide for Python developers who want to learn how to build applications with large language models Authors Olivier Caelen and Marie Alice Blete cover the main features and benefits of GPT 4 and GPT 3.5 models and explain how they work You'll also get a step by step guide for developing applications using the OpenAI Python library including text generation Q & A and smart assistants Written in clear and concise language *Developing Apps with GPT 4 and ChatGPT* includes easy to follow examples to help you understand and apply the concepts to your projects Python code examples are available in a GitHub repository and the book includes a glossary of key terms Ready to harness the power of large language models in your applications This book is a must You'll learn Fundamentals and benefits of GPT 4 and GPT 3.5 models including the main features and how they work How to integrate these models into Python based applications leveraging natural language processing capabilities and overcoming specific LLM related challenges Examples of applications demonstrating the OpenAI API in Python for tasks including text generation

question answering content summarization classification and more Advanced LLM topics such as prompt engineering fine tuning models for specific tasks RAG plug ins LangChain LlamaIndex GPTs and assistants Olivier Caelen is a machine learning researcher at Worldline and teaches machine learning courses at the University of Brussels Marie Alice Blete a software architect and data engineer in Worldline s R D department is interested in performance and latency issues associated with AI solutions

The Hitchhiker's Guide to ChatGPT Devin Schumacher, Francis LaBounty Jr., 2023-02-25

Everything You Need to Know to Get Started Using ChatGPT to VASTLY Improve Your Efficiency Profit ROI in Your Business Or Start a New Business Create Additional Revenue Streams Fully Leverage Artificial Intelligence to Make Your Life Better Artificial Intelligence is HERE And there s not much artificial about it Used Correctly AI Will Help You Produce More With AI you can automate repetitive and time consuming tasks freeing up time to focus on creative and fulfilling work This can enhance your personal happiness and fulfillment while increasing productivity and efficiency in the workplace Earn More AI can increase productivity and efficiency leading to greater income potential You can also use AI powered financial management tools to better manage your finances and make better investment decisions potentially leading to greater wealth accumulation and financial freedom Live More Automate menial and trivial tasks you can create more balance in your life and spend more time on what matters most such as family hobbies and personal development This can increase overall happiness and fulfillment Enjoy More More time means more pursuit of your passions interests ultimately leading to greater fulfillment and happiness And that just scratches the surface IN THIS BOOK Intro to AI ChatGPT Get ahead of the competition and transform your business with the power of AI even if you have no prior experience or technical expertise Unlock unlimited possibilities for your business driving growth and success like never before Real life Examples for Every industry Discover the many ways that AI can revolutionize your industry from improving healthcare outcomes and streamlining finance to enhancing customer service and increasing productivity Prompts Harness the true power of AI by understanding the importance of prompts which can help you achieve extraordinary results from personalized customer experiences to more accurate data analysis Prompt Engineering Become a master of prompt engineering and create tailored prompts that make your AI powered applications more effective and efficient No prior engineering experience needed Prompt Examples Plug play prompts you can use these examples to inspire your own winning prompts creating a competitive edge that sets your business apart from the rest Jailbreaking Unleash the full potential of AI by breaking free from traditional limitations and creating innovative solutions that push the boundaries of what s possible in your industry Tools Extensions Enhancements Access a wealth of tools extensions and add ons that can help you maximize the benefits of AI and ChatGPT driving greater results and generating more revenue no technical knowledge required Access to a community of experts Get support and guidance from a community of AI and ChatGPT experts helping you overcome challenges and make the most of this transformative technology practically instantly Ensure your business is always on the cutting edge of AI innovation

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