

OpenAI Is Facing Diminishing Returns With Its Latest AI Model



Openai Latest Returns

Rabi Jay

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the 'Rabi Jay' text.

Openai Latest Returns:

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

The Disruptors Sally

Percy,2024-09-03 Fearless innovative driven and daring These are the qualities of a disruptor a business that is willing to take risks to achieve incredible success In The Disruptors leading business journalist Sally Percy investigates the stories behind some of the world s most innovative businesses who took unconventional and trailblazing approaches to overcome the competition and achieve success Spotify Nintendo TikTok and A24 These are all businesses that have taken disruptive pathways to success and have redefined their industries The Disruptors dives into the strategies behind these stories offering valuable insights into innovative and daring entrepreneurship *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 **CEO OF MY TIME FOR BEING A..I** Rajeev

Nalawadi,2023-07-06 Each one of us has a perception of reality that is shaped by a number of factors such as our senses our experiences our beliefs our emotions and our perspectives This book draws from personal experiences culture technology genes philosophy and attempts to reveal a path that systematically unveils the tools to understanding ourselves better and as a result unlock the potential deep within us If we believe that the world is a dangerous place we may be more likely to interpret events in a negative way Conversely if we believe that the world is a friendly place we may be more likely to interpret events in a positive way By creating an awareness of how these perceptions of reality are influential and understanding how our minds work we can become more objective in our thinking and make better informed decisions Technology growth has fueled our communications by helping us stay in touch with friends and family anywhere in the world collaborate with colleagues clients located anywhere in the world provided accessibility to almost unlimited information and knowledge at the click of a few buttons improved quality of life for people with disabilities wearables to monitor our health and fitness Despite all these life enriching experiences there is a deep sense of anxiety fear and tension that is tied to newer innovations like Artificial Intelligence AI and many other products Embark on this unique transformational journey with author Rajeev Nalawadi to analyze from an engineer s perspective the concepts of I Me Mine You in our lives When we see ourselves as I we are seeing ourselves as separate from the world around us When we see ourselves as me we are seeing ourselves as a collection of thoughts feelings and experiences When we see ourselves as mine we are seeing ourselves as

attached to things and people in the material world When we see ourselves as you we are seeing ourselves as connected to all other beings in the universe How can we transform ourselves to chart life s journey to lead a more fulfilling life amidst the wave of breakneck speed innovations about to be introduced Tapping into the field of all possibilities is within reach for all of us it just needs to be explored the right way Rather than being overwhelmed by the blast of technological innovations headed our way we can use some techniques to manage our life s transformations in a way that can instill peace and calmness

Observability For Legacy Systems Hyen Seuk Jeong,2025-09-14 Become an expert in implementing observability methods for legacy technologies and discover how to use AIOps and OpenTelemetry to analyze root causes and solve problems in banking and telecommunications Through this book you will engage with issues that occur in kernels networks CPU and IO by developing skills to handle traces and logs as well as Profiles eBPF and debugging The real world examples in the book will enable you to analyze and aggregate observability data helping you gain competence in automating systems and resolving business critical issues rapidly and efficiently The book will introduce you to new observability approaches describe different types of errors and explain how observability addresses them It will provide training on how to develop dashboards and charts and design a root cause analysis process Emphasizing trace centric observability you will gain expertise in using EAI servers to integrate legacy tech and using extensions to complement the OpenTelemetry Agent You will also understand the varied practical uses of OpenTelemetry through examples from multiple industries as well as an OpenTelemetry demo application The book then takes you through infrastructure observability and infrastructure anomaly detection enabling you to visualize and trace problems and helping you identify and proactively respond to anomalies in system resources In the final chapters you will learn how to aggregate and analyze observability data using Presto and Druid Finally you will familiarize yourself with AIOps and learn how to implement it with Langchain and RAGs By the end of this book you will be fully trained in the practical implementation of observability and using observability data to identify analyze and solve problems for large industries like finance and telecommunications What You Will Learn Integrate observability with legacy technology Perform root cause analysis using observability platforms like OpenTelemetry Analyze and aggregate observability data to solve business problems Use AIOps and anomaly detection tools to automate operations and reduce costs Who This Book Is For System developers data engineers SREs infrastructure engineers system architects Java developers and DevOps engineers who are enthusiastic about observability and want to implement it with legacy technology

Textual Intelligence Meenakshi Malik,Preeti Sharma,Susheela Hooda,2025-07-23 The book is a must have resource for anyone looking to understand the complexities of generative AI offering comprehensive insights into LLMs effective training strategies and practical applications Textual Intelligence Large Language Models and Their Real World Applications provides an overview of generative AI and its multifaceted applications as well as the significance and potential of Large Language Models LLMs including GPT and LLaMA It addresses the generative AI project lifecycle challenges in existing data

architectures proposed use case planning and scope definition model deployment and application integration Training LLMs data requirements for effective LLM training pre training and fine tuning processes and navigating computational resources and infrastructure are also discussed The volume delves into in context learning and prompt engineering offering strategies for crafting effective prompts techniques for controlling model behavior and output quality and best practices for prompt engineering Textual Intelligence Large Language Models and Their Real World Applications also discusses cost optimization strategies for LLM training aligning models to human values optimizing model architectures the power of transfer learning and fine tuning instruction fine tuning for precision and parameter efficient fine tuning PEFT with adapters such as LoRA QLoRA and soft prompts making it an essential guide for both beginners and industry veterans Readers will find this book Explores the real world potential of large language models Introduces industry changing AI solutions Provides advanced insights on AI and its models Audience Industry professionals academics graduate students and researchers seeking real world solutions using generative AI

Operations Research and Enterprise Systems Federico Liberatore, Slawo Wesolkowski, Marc Demange, Greg H. Parlier, 2023-12-14 This book includes extended and revised versions of selected papers from the 11th and 12th editions of the International Conference on Operations Research and Enterprise Systems ICORES 2022 and ICORES 2023 ICORES 2022 was held as a virtual event in February 2022 and ICORES 2023 was held in Lisbon Portugal in February 2023 The 5 full papers included in this book were carefully reviewed and selected from the 55 submissions for ICORES 2022 and 8 full papers were reviewed and selected from the 55 submissions for ICORES 2023 The papers are focused on operations research and enterprise systems

Empire of AI Karen Hao, 2025-05-20 A NEW YORK TIMES BESTSELLER An eye opening account of the tech arms race shaping out planet from an award winning journalist and AI insider to the world of Sam Altman and OpenAI When longtime AI expert and 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 it was meant its leader Sam Altman told us to act as a check against more purely market forces But the core truth of this massively disruptive sector is that it requires an unprecedented amount of proprietary resources the compute power of scarce high end chips the sheer volume of data that needs to be amassed at scale the humans on the ground cleaning it up for sweatshop wages throughout the Global South and a truly alarming spike in the need for energy and water underlying everything We have entered a new ominous age of empire with OpenAI setting a breakneck pace as a small group of the most valuable companies in human history try to chase it down In exhilarating prose and with unparalleled access to those closest to Sam Altman Hao recounts the meteoric rise of OpenAI and shows us the sinister impact that this industry is having on society

Geopolitica dell'intelligenza artificiale Alessandro Aresu, 2024-10-22 T00:00:00+02:00 L intelligenza artificiale l invenzione definitiva dell umanit La sua comparsa sulla scena evoca il rischio dell estinzione del suo creatore poich la sua diffusione porter forse al suo superamento Queste visioni apocalittiche pervadono ormai il discorso pubblico sulla tecnologia

in un mondo dove la stessa espressione intelligenza artificiale divenuta onnipresente e ossessiva Sono temi tutt altro che nuovi per le loro profonde radici filosofiche e per i pionieri che in vari ambiti li hanno alimentati nel corso del Novecento eppure qualcosa di significativo gli accaduto e siamo spettatori di connessioni di cui non cogliamo pienamente il significato Il dibattito sull intelligenza artificiale chiama poi in causa alcuni concetti chiave tra cui l origine dell intelligenza stessa ci che sappiamo e ignoriamo del cervello e del pensiero l idea di un intelligenza generale applicata alle macchine i limiti quantitativi e qualitativi del calcolo il problema dell allineamento della tecnologia ai nostri bisogni e ai nostri valori Ma quali aziende alimentano questi processi E quali sono le loro implicazioni in un mondo radicalmente diviso dilaniato dalla guerra tecnologica tra Stati Uniti e Cina che attraversa l infrastruttura e gli usi dell intelligenza artificiale e la corsa alle risorse economiche e materiali necessarie al suo continuo sviluppo Alessandro Aresu ci racconta l intreccio di relazioni tra filosofi scienziati e imprenditori che stanno plasmando questo mondo come Jensen Huang fondatore di NVIDIA e protagonista assoluto della rivoluzione tecnologica intorno all AI Bill Dally informatico e mente scientifica dietro ai portentosi microchip che rendono possibile l evoluzione dell AI ma anche il rapporto tra il Cynar e i pionieri di DeepMind oltre che le storie dei manager meno conosciuti che operano in OpenAI Ci aiuta cos a comprendere il presente e i possibili scenari futuri segnati dalla rivoluzione dell intelligenza artificiale le lotte tra le aziende impegnate nello sviluppo dell AI definitiva e le ripercussioni geopolitiche negli equilibri mondiali L intelligenza artificiale l invenzione definitiva dell umanit Come sono nate e come funzionano le macchine pensanti E quali saranno le ripercussioni sugli equilibri mondiali

Generative AI Apps with LangChain and Python Rabi Jay, 2024-12-26 Future proof your programming career through practical projects designed to grasp the intricacies of LangChain s components from core chains to advanced conversational agents This hands on book provides Python developers with the necessary skills to develop real world Large Language Model LLM based Generative AI applications quickly regardless of their experience level Projects throughout the book offer practical LLM solutions for common business issues such as information overload internal knowledge access and enhanced customer communication Meanwhile you ll learn how to optimize workflows enhance embedding efficiency select between vector stores and other optimizations relevant to experienced AI users The emphasis on real world applications and practical examples will enable you to customize your own projects to address pain points across various industries Developing LangChain based Generative AI LLM Apps with Python employs a focused toolkit LangChain Pinecone and Streamlit LLM integration to practically showcase how Python developers can leverage existing skills to build Generative AI solutions By addressing tangible challenges you ll learn by be doing enhancing your career possibilities in today s rapidly evolving landscape What You Will Learn Understand different types of LLMs and how to select the right ones for responsible AI Structure effective prompts Master LangChain concepts such as chains models memory and agents Apply embeddings effectively for search content comparison and understanding similarity Setup and integrate Pinecone vector database for indexing structuring data and

search Build Q those seeking a structured guide to enhance their careers by learning to create robust real world LLM powered Generative AI applications data scientists analysts and experienced developers new to LLMs [Building Business-Ready Generative AI Systems](#) Denis Rothman,2025-07-25 Supercharge your business with context aware AI controllers adaptive agents multimodal reasoning functionality neuroscientific memory systems and flexible handler mechanisms that integrate the emerging generative AI models Get with your book PDF copy AI Assistant and Next Gen Reader free Key Features Build an adaptive context aware AI controller with advanced memory strategies Enhance GenAISys with multi domain multimodal reasoning capabilities and Chain of Thought CoT Seamlessly integrate cutting edge OpenAI and DeepSeek models as you see fit Book DescriptionStandalone LLMs no longer deliver sufficient business value on their own This guide moves beyond basic chatbots showing you how to build agentic ChatGPT grade systems capable of sophisticated semantic and sentiment analysis powered by context engineering You ll design AI controller architectures with multi user memory retention to dynamically adapt your system to diverse user and system inputs You ll architect a Retrieval Augmented Generation system with Pinecone to combine instruction driven scenarios Through context engineering you ll minimize token usage maximize response quality and create systems that reason across complex tasks with precision You ll enhance your system s intelligence with multimodal capabilities image generation voice interactions and machine driven reasoning leveraging Chain of Thought and context chaining to address cross domain automation challenges You ll also integrate OpenAI s suite and DeepSeek R1 without disrupting your existing GenAISys ecosystem With context engineering as the backbone every step becomes a deliberate act of shaping model behavior Your GenAISys will apply neuroscience inspired insights to marketing strategies predict human mobility integrate smoothly into human workflows and connect to live external data all wrapped in a polished investor ready interface What you will learn Implement an AI controller with a conversation AI agent and orchestrator at its core Build contextual awareness with short term long term and cross session memory Design cross domain automation with multimodal reasoning image generation and voice features Expand a CoT agent by integrating consumer memory understanding Integrate cutting edge models of your choice without disrupting your existing GenAISys Connect to real time external data while blocking security breaches Who this book is for This book is for AI and Machine Learning Engineers seeking to enhance their understanding of Generative AI and its enterprise applications It will particularly benefit those interested in building AI agents creating advanced orchestration systems and leveraging AI for automation in marketing production and logistics Software architects and enterprise developers looking to build scalable AI driven systems will also find immense value in this guide No prior superintelligence experience is necessary but familiarity with AI concepts is recommended **The Developer's Playbook for Large Language Model Security** Steve Wilson,2024-09-03 Large language models LLMs are not just shaping the trajectory of AI they re also unveiling a new era of security challenges This practical book takes you straight to the heart of these threats Author Steve Wilson chief product

officer at Exabeam focuses exclusively on LLMs eschewing generalized AI security to delve into the unique characteristics and vulnerabilities inherent in these models Complete with collective wisdom gained from the creation of the OWASP Top 10 for LLMs list a feat accomplished by more than 400 industry experts this guide delivers real world guidance and practical strategies to help developers and security teams grapple with the realities of LLM applications Whether you re architecting a new application or adding AI features to an existing one this book is your go to resource for mastering the security landscape of the next frontier in AI You ll learn Why LLMs present unique security challenges How to navigate the many risk conditions associated with using LLM technology The threat landscape pertaining to LLMs and the critical trust boundaries that must be maintained How to identify the top risks and vulnerabilities associated with LLMs Methods for deploying defenses to protect against attacks on top vulnerabilities Ways to actively manage critical trust boundaries on your systems to ensure secure execution and risk minimization

Progress in Artificial Intelligence Paulo Moura Oliveira, Paulo Novais, Luís Paulo Reis, 2019-08-31 This book constitutes the refereed proceedings of the 19th EPIA Conference on Artificial Intelligence EPIA 2019 held in Funchal Madeira Portugal in September 2019 The 119 revised full papers and 6 short papers presented were carefully reviewed and selected from a total of 252 submissions The papers are organized in 18 tracks devoted to the following topics AIEd Artificial Intelligence in Education AI4G Artificial Intelligence for Games AIoTA Artificial Intelligence and IoT in Agriculture AIL Artificial Intelligence and Law AIM Artificial Intelligence in Medicine AICPDES Artificial Intelligence in Cyber Physical and Distributed Embedded Systems AIPES Artificial Intelligence in Power and Energy Systems AITS Artificial Intelligence in Transportation Systems ALEA Artificial Life and Evolutionary Algorithms AmIA Ambient Intelligence and Affective Environments BAAI Business Applications of Artificial Intelligence GAI General AI IROBOT Intelligent Robotics KDBI Knowledge Discovery and Business Intelligence KRR Knowledge Representation and Reasoning MASTA Multi Agent Systems Theory and Applications SSM Social Simulation and Modelling TeMA Text Mining and Applications

Sam Altman MANAS PAL, 2025-10-29 Sam Altman Architect of the AI Age is the definitive biography of one of the most influential figures in modern technology the man behind OpenAI and ChatGPT From his early days as a curious Midwestern child teaching himself to code to his rise as a Silicon Valley founder with Loopt and later as president of Y Combinator guiding hundreds of startups Altman s journey reflects the restless drive of innovation in its purest form But his most consequential chapter began with the founding of OpenAI a bold mission to ensure that artificial intelligence would serve humanity not threaten it This book traces the story of how OpenAI went from a non profit research lab to the creator of ChatGPT a tool that shocked the world by showing just how close we may be to artificial general intelligence Along the way it explores the controversial decision to adopt a capped profit structure the multibillion dollar partnership with Microsoft and the debates over safety ethics and regulation that Altman has been forced to navigate on the global stage Across more than 30 000 words of research and storytelling you ll discover Altman s childhood education and first ventures in tech Lessons

from Loopt and his years shaping the next generation of startups at Y Combinator The founding vision values and controversies of OpenAI How GPT models evolved from obscure research projects into cultural phenomena The release of ChatGPT and the shockwaves it sent through business education and society Altman s views on AGI existential risk and the urgent need for regulation Criticisms and controversies that have tested his leadership The open ended possibilities of a future shaped by artificial intelligence from utopia to dystopia This is not only a biography of Sam Altman but a chronicle of our time the birth of an intelligence beyond human design and the extraordinary risks and opportunities it presents For anyone curious about where technology is heading and the people steering it this book offers both a portrait of a visionary and a reflection on the choices that will define the century The future of AI is being written now This is the story of the man holding the pen

Building an Application Development Framework Ivan Padabed, Roman Voronin, 2025-09-30 Craft powerful reusable frameworks to streamline your software development process and boost team efficiency Key Features Design develop and deploy a tailored application development framework ADF for your needs Master industry best practices for effective ADF creation and implementation Ensure engineering excellence by measuring and optimizing ADF performance Purchase of the print or Kindle book includes a free PDF eBook Book Description Transform the way you build software with ADFs designed for agility and success In today s competitive tech landscape inefficient software development processes can hold your organizational back Written by two tech experts who have architected success across many cutting edge startups Building an Application Development addresses this challenge by introducing you to the power of ADFs You ll explore core concepts uncover the strategic advantages of ADFs and learn how to architect a custom framework tailored to your specific needs and business goals Through practical guidance and real world case studies you ll gain mastery over critical elements such as version control packaging testing and documentation The book emphasizes fostering an extensible ecosystem for your ADF empowering your engineering teams to navigate the ever evolving technological landscape with confidence and agility Ivan Padabed and Roman Voronin bring their experience of transforming complex engineering challenges into scalable solutions to equip you with the knowledge you need to drive efficiency enhance quality and achieve long term success through a powerful reusable ADF that can adapt to changing requirements By the end of this book you ll be able to unlock the potential of your development processes and elevate your team s productivity What you will learn Design and implement robust ADF architecture for seamless integration Choose technologies that enhance the framework s performance and scalability Manage versioning and packaging for efficient software distribution Create a secure environment that protects your development process Foster collaboration for a flexible and extensible ADF ecosystem Measure and optimize performance to ensure continuous improvement Who this book is for If you re a technical leader engineering manager or software developer looking to boost development efficiency and team productivity this book is for you A basic understanding of software development lifecycles and team performance metrics such as DORA will help you make the most of this book to

streamline workflows and empower your team to build more scalable and reliable applications

Deep Learning with TensorFlow Giancarlo Zaccone, Md. Rezaul Karim, 2018-03-30 Delve into neural networks implement deep learning algorithms and explore layers of data abstraction with the help of TensorFlow Key Features Learn how to implement advanced techniques in deep learning with Google's brainchild TensorFlow Explore deep neural networks and layers of data abstraction with the help of this comprehensive guide Gain real world contextualization through some deep learning problems concerning research and application Book Description Deep learning is a branch of machine learning algorithms based on learning multiple levels of abstraction Neural networks which are at the core of deep learning are being used in predictive analytics computer vision natural language processing time series forecasting and to perform a myriad of other complex tasks This book is conceived for developers data analysts machine learning practitioners and deep learning enthusiasts who want to build powerful robust and accurate predictive models with the power of TensorFlow combined with other open source Python libraries Throughout the book you'll learn how to develop deep learning applications for machine learning systems using Feedforward Neural Networks Convolutional Neural Networks Recurrent Neural Networks Autoencoders and Factorization Machines Discover how to attain deep learning programming on GPU in a distributed way You'll come away with an in depth knowledge of machine learning techniques and the skills to apply them to real world projects What you will learn Apply deep machine intelligence and GPU computing with TensorFlow Access public datasets and use TensorFlow to load process and transform the data Discover how to use the high level TensorFlow API to build more powerful applications Use deep learning for scalable object detection and mobile computing Train machines quickly to learn from data by exploring reinforcement learning techniques Explore active areas of deep learning research and applications Who this book is for The book is for people interested in machine learning and machine intelligence A rudimentary level of programming in one language is assumed as is a basic familiarity with computer science techniques and technologies including a basic awareness of computer hardware and algorithms Some competence in mathematics is needed to the level of elementary linear algebra and calculus

Developing Apps with GPT-4 and ChatGPT Olivier Caelen, Marie-Alice Blete, 2023-08-29 This minibook is a comprehensive 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 ChatGPT and explain how they work You'll also get a step by step guide for developing applications using the GPT 4 and ChatGPT Python library including text generation Q A and content summarization tools 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 The fundamentals and benefits of ChatGPT and GPT 4 and how they work How to integrate these models into Python based applications for NLP

tasks How to develop applications using GPT 4 or ChatGPT APIs in Python for text generation question answering and content summarization among other tasks Advanced GPT topics including prompt engineering fine tuning models for specific tasks plug ins LangChain and more

ChatGPT for Cybersecurity Cookbook Clint Bodungen,2024-03-29 Master ChatGPT and the OpenAI API and harness the power of cutting edge generative AI and large language models to revolutionize the way you perform penetration testing threat detection and risk assessment Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Enhance your skills by leveraging ChatGPT to generate complex commands write code and create tools Automate penetration testing risk assessment and threat detection tasks using the OpenAI API and Python programming Revolutionize your approach to cybersecurity with an AI powered toolkit Book DescriptionAre you ready to unleash the potential of AI driven cybersecurity This cookbook takes you on a journey toward enhancing your cybersecurity skills whether you re a novice or a seasoned professional By leveraging cutting edge generative AI and large language models such as ChatGPT you ll gain a competitive advantage in the ever evolving cybersecurity landscape ChatGPT for Cybersecurity Cookbook shows you how to automate and optimize various cybersecurity tasks including penetration testing vulnerability assessments risk assessment and threat detection Each recipe demonstrates step by step how to utilize ChatGPT and the OpenAI API to generate complex commands write code and even create complete tools You ll discover how AI powered cybersecurity can revolutionize your approach to security providing you with new strategies and techniques for tackling challenges As you progress you ll dive into detailed recipes covering attack vector automation vulnerability scanning GPT assisted code analysis and more By learning to harness the power of generative AI you ll not only expand your skillset but also increase your efficiency By the end of this cybersecurity book you ll have the confidence and knowledge you need to stay ahead of the curve mastering the latest generative AI tools and techniques in cybersecurity What you will learn Master ChatGPT prompt engineering for complex cybersecurity tasks Use the OpenAI API to enhance and automate penetration testing Implement artificial intelligence driven vulnerability assessments and risk analyses Automate threat detection with the OpenAI API Develop custom AI enhanced cybersecurity tools and scripts Perform AI powered cybersecurity training and exercises Optimize cybersecurity workflows using generative AI powered techniques Who this book is for This book is for cybersecurity professionals IT experts and enthusiasts looking to harness the power of ChatGPT and the OpenAI API in their cybersecurity operations Whether you re a red teamer blue teamer or security researcher this book will help you revolutionize your approach to cybersecurity with generative AI powered techniques A basic understanding of cybersecurity concepts along with familiarity in Python programming is expected Experience with command line tools and basic knowledge of networking concepts and web technologies is also required

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 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 used for Natural Language Processing NLP and Computer Vision CV The book guides you through a range of transformer architectures from foundation models and 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

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