

OpenAI Is Facing Diminishing Returns With Its Latest AI Model



Openai Latest Returns

Parmy Olson



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

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

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

Java for Programmers Paul Deitel, Harvey M. Deitel, 2025-05-21 The professional programmer's Deitel guide to Java with integrated generative AI Written for programmers with a background in another high level language in **Java for Programmers with Generative AI Fifth Edition** you'll learn modern Java development hands on using the latest Java idioms and features and genAIs In the context of 200 real world code examples you'll quickly master Java fundamentals then move on to arrays strings regular expressions JSON CSV processing with the Jackson library private and public key cryptography classes inheritance polymorphism interfaces dependency injection exceptions generic collections custom generics functional programming with lambdas and streams JavaFX GUI graphics and multimedia platform threads virtual threads structured concurrency scoped values building API based Java genAI apps database with JDBC and SQLite the Java Platform Module System and JShell for Python like interactivity Features GenAI Prompt Engineering API Calls 600 GenAI Exercises ChatGPT Gemini Claude Perplexity Multimodal Text Code Images Audio Speech to Text Text to Speech Video Generics Collections Classes Methods Functional Programming Lambdas Streams JavaFX GUI Graphics Multimedia Concurrency Parallel Streams Virtual Threads Structured Concurrency Scoped Values Concurrent Collections Multi Core Database JDBC SQL SQLite Java Platform Module System JPMS Objects Natural Java API String BigInteger BigDecimal Date Time Cryptography ArrayList Regex JSON CSV Web Services JShell for Python Like Interactivity Want to stay in touch with the Deitels Contact the authors at deitel@deitel.com Join the Deitel social media communities [deitel.com linkedin](https://www.linkedin.com/company/deitel) [facebook](https://www.facebook.com/deitel)

com DeitelFan instagram com DeitelFan x com deitel youtube com DeitelTV mastodon social deitel For source code and updates visit deitel com javafp5 Reviewer Comments The future of Java programming is here and this new edition of Deitel is leading the charge By embracing genAI head on the authors are potentially revolutionizing programming education Through its integrative approach to the use and study of genAI this book is positioned to be the leading book in modern Java and its applications Indeed I expect that it should be widely adopted by instructors who want to ingrain in their students an appreciation for the critical role that Java will play in data science machine learning artificial intelligence and cybersecurity The book s innovative and forward thinking use of genAI facilitates reader engagement and inspires readers to think critically about the benefits and limitations of AI as a programming aid Chapter 19 could become everyone s favorite new Java book chapter the generative AI API based code examples are interesting and fun All audiences of this book should read the Preface there s so much to get excited about It demonstrates with refreshing transparency and honesty how much love and care went into the reinvention of an already outstanding Java book by bringing it into a new frontier of what it means to be a programmer in today s world Bravo Your Preface statement GenAI has created an ultra high level programming capability that will leverage your Java learning experience and ability to produce robust top quality Java software quickly conveniently and economically is a great conclusion to the Preface intro really helps justify the use of genAI Brian Canada Professor of Computational Science University of South Carolina Beaufort After reading your whole book it was fun to read the Preface that wraps everything up at a high level You have done some amazing work here and I m glad to have been a small part of it as a reviewer I especially appreciate how difficult it must have been to make sure everything was as up to date as possible with the speed at which things change in this field and the deftness with which you incorporated all the focus on GenAI and data science that s in this book Emily Navarro Ph D Continuing Lecturer Department of Informatics University of California Irvine The generative AI exercises are awesome and reflect the way modern developers work They are fun and let the reader explore and learn about AI by using AI how meta This allows readers to expand their knowledge and get a feel for the AIs code related capabilities Jeanne Boyarsky CodeRanch Java Champion Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details Note eBooks are 4 color and print books are black and white

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

Understanding Business Ethics Peter A. Stanwick, Sarah D. Stanwick, 2024-05-30 Understanding Business Ethics delves into the pivotal world of business ethics illuminating the complexities of ethical behavior in the global business landscape The updated Fourth Edition intricately weaves together global perspective real world business cases and a recurrent theme preparing students and professionals for ethical decision making situations in their respective careers

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

Social Engineering Cookbook Manish Sharma,2025-03-22 DESCRIPTION Social engineering can be the most dangerous and effective type of hacking because the human component is notoriously the weakest link in the security chain This Social Engineering Cookbook encompasses a blend of theoretical and practical knowledge that focuses on psychological manipulation of people to gain confidential information and to protect yourself from such attacks In this book you will learn how to anticipate the moves of social engineers what tools they use and how they use the art of deception for personal gain You will master information gathering with search engines and specialized tools learn to analyze email trails and understand the execution of various social engineering attacks Advanced techniques like micro expression reading and NLP are explored alongside real world case studies to illustrate potential risks Finally it examines emerging trends like AI manipulation and ethical applications of these techniques By mastering the recipes and techniques outlined in this Social Engineering Cookbook readers will be empowered to recognize defend against and ethically utilize social engineering tactics transforming them into vigilant defenders in their personal and professional lives By the end of this book you will learn how to hack the human mind and protect yourself from manipulation

WHAT YOU WILL LEARN Define social engineering analyze psychology identify vulnerabilities conduct OSINT and execute advanced techniques Master OSINT tools email analysis digital footprinting and understand attack execution Explore pretexting NLP mitigate online threats and grasp legal implications Implement security measures analyze case studies understand AI s impact and ethical use Utilize Maltego HTTrack analyze email headers and apply emotional manipulation tactics Conduct website footprinting learn deepfake detection and implement incident response Automate data collection master credential harvesting and understand regulatory compliance Explore micro expressions use SET analyze social media OSINT and counter biohacking Implement multi factor authentication conduct penetration tests and understand cyber warfare

WHO THIS BOOK IS FOR This Social Engineering Cookbook is for anyone seeking to understand social engineering from beginners to experienced professionals like security personnel ethical hackers and penetration testers as well as individuals aiming to enhance their security awareness

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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

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

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

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 **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 Keras Reinforcement
Learning Projects Giuseppe Ciaburro, 2018-09-29 A practical guide to mastering reinforcement learning algorithms using
Keras Key Features Build projects across robotics gaming and finance fields putting reinforcement learning RL into action Get
to grips with Keras and practice on real world unstructured datasets Uncover advanced deep learning algorithms such as
Monte Carlo Markov Decision and Q learning Book Description Reinforcement learning has evolved a lot in the last couple of
years and proven to be a successful technique in building smart and intelligent AI networks Keras Reinforcement Learning

Projects installs human level performance into your applications using algorithms and techniques of reinforcement learning coupled with Keras a faster experimental library The book begins with getting you up and running with the concepts of reinforcement learning using Keras You ll learn how to simulate a random walk using Markov chains and select the best portfolio using dynamic programming DP and Python You ll also explore projects such as forecasting stock prices using Monte Carlo methods delivering vehicle routing application using Temporal Distance TD learning algorithms and balancing a Rotating Mechanical System using Markov decision processes Once you ve understood the basics you ll move on to Modeling of a Segway running a robot control system using deep reinforcement learning and building a handwritten digit recognition model in Python using an image dataset Finally you ll excel in playing the board game Go with the help of Q Learning and reinforcement learning algorithms By the end of this book you ll not only have developed hands on training on concepts algorithms and techniques of reinforcement learning but also be all set to explore the world of AI What you will learnPractice the Markov decision process in prediction and betting evaluationsImplement Monte Carlo methods to forecast environment behaviorsExplore TD learning algorithms to manage warehouse operationsConstruct a Deep Q Network using Python and Keras to control robot movementsApply reinforcement concepts to build a handwritten digit recognition model using an image datasetAddress a game theory problem using Q Learning and OpenAI GymWho this book is for Keras Reinforcement Learning Projects is for you if you are data scientist machine learning developer or AI engineer who wants to understand the fundamentals of reinforcement learning by developing practical projects Sound knowledge of machine learning and basic familiarity with Keras is useful to get the most out of this book [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

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

ChatGPT for Conversational AI and Chatbots Adrian Thompson,2024-07-30 Explore ChatGPT technologies to create state of the art chatbots and voice assistants and prepare to lead the AI revolution Key Features Learn how to leverage ChatGPT to create innovative conversational AI solutions for your

organization Harness LangChain and delve into step by step LLM application development for conversational AI Gain insights into security privacy and the future landscape of large language models and conversational AI Purchase of the print or Kindle book includes a free PDF eBook Book Description ChatGPT for Conversational AI and Chatbots is a definitive resource for exploring conversational AI ChatGPT and large language models This book introduces the fundamentals of ChatGPT and conversational AI automation You ll explore the application of ChatGPT in conversation design the use of ChatGPT as a tool to create conversational experiences and a range of other practical applications As you progress you ll delve into LangChain a dynamic framework for LLMs covering topics such as prompt engineering chatbot memory using vector stores and validating responses Additionally you ll learn about creating and using LLM enabling tools monitoring and fine tuning LangChain UI tools such as LangFlow and the LangChain ecosystem You ll also cover popular use cases such as using ChatGPT in conjunction with your own data Later the book focuses on creating a ChatGPT powered chatbot that can comprehend and respond to queries directly from your unique data sources The book then guides you through building chatbot UIs with ChatGPT API and some of the tools and best practices available By the end of this book you ll be able to confidently leverage ChatGPT technologies to build conversational AI solutions What you will learn Gain a solid understanding of ChatGPT and its capabilities and limitations Understand how to use ChatGPT for conversation design Discover how to use advanced LangChain techniques such as prompting memory agents chains vector stores and tools Create a ChatGPT chatbot that can answer questions about your own data Develop a chatbot powered by ChatGPT API Explore the future of conversational AI LLMs and ChatGPT alternatives Who this book is for This book is for tech savvy readers conversational AI practitioners engineers product owners business analysts and entrepreneurs wanting to integrate ChatGPT into conversational experiences and explore the possibilities of this game changing technology Anyone curious about using internal data with ChatGPT and looking to stay up to date with the developments in large language models will also find this book helpful Some expertise in coding and standard web design concepts would be useful along with familiarity with conversational AI terminology though not essential

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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