



The image features a hand holding a black smartphone in the foreground. The screen of the phone displays the OpenAI logo, which consists of a stylized white icon resembling a knot or a flower, followed by the text "OpenAI" in a white, sans-serif font. The background is a dense, overlapping collage of US hundred dollar bills, showing the portrait of Benjamin Franklin and various serial numbers. The bills are slightly out of focus, creating a sense of depth.

Openai On Sale Returns

Roman Wölfel



Openai On Sale Returns:

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

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

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

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

Einstieg in Python Michael Inden,2024-12-10
Richtig programmieren von Anfang an Umfangreiche Praxisprojekte laden zum Experimentieren ein Sourcecode und Beispiele sind als Download verf gbar Neu in der 2 Auflage Bildverarbeitung und Large Language Models Mit diesem Buch gelingt Ihnen der Einstieg in Python mit Leichtigkeit denn Sie werden auf Ihrer Entdeckungsreise vom erfahrenen Trainer Michael Inden begleitet Zahlreiche Codebeispiele verdeutlichen die Lerninhalte und laden zum Experimentieren ein Erg nzend werden Python spezifische Besonderheiten erkl rt die Ihre Programme von Anfang an pythonic stilistisch sch n machen Das Erlernen wird durch einen interaktiven Einstieg mit dem Python Kommandozeileninterpreter erleichtert in dem Sie viele Beispiele direkt ausprobieren k nnen und so schnelle Lernerfolge erzielen Au erdem erfahren Sie wie Sie eine Entwicklungsumgebung und die objektorientierte Programmierung sinnvoll einsetzen Zahlreiche Aufgaben und Musterl sungen runden die Kapitel ab sodass Sie schnell eigene Projekte verwirklichen k nnen Diese 2 Auflage erg nzt Kapitel zur Bildverarbeitung sowie zu popul ren LLMs und deren vielf ltigen Einsatzm glichkeiten Schlie lich werden die Neuerungen aus Python 3.13 im Anhang vorgestellt

[The Uncanny Muse](#) David Hajdu,2025-02-04 One of Literary Hub s Most Anticipated Books of 2025 An acclaimed critic journalist and songwriter musician tells the story of art s relation to machines from the Baroque period to the age of AI What does it mean to be human in a world where machines too can be artists The Uncanny Muse explores the history of automation in the arts and delves into one of the most momentous and controversial aspects of AI artificial creativity The adoption of technology and machinery has long transformed the world but as the potential for artificial intelligence expands David Hajdu examines the new increasingly urgent questions about technology s role in culture From the life size mechanical doll that made headlines in Victorian London to the doll s modern AI pop star counterpart Hajdu traces the fascinating varied ways in which inventors and artists have sought to emulate mental processes and mechanize creative production For decades machines and artists have engaged in expressing the human condition along

with the condition of living with machines through player pianos broadcasting technology electric organs digital movie effects synthesizers and motion capture By communicating and informing human knowledge the machines have exerted considerable influence on the history of art and often more influence than humans have been willing to recognize As Hajdu proclaims before machine learning there was machine teaching With thoughtful wide ranging and surprising turns from Berry Gordy and George Harrison to Andy Warhol and Stevie Wonder David Hajdu takes a novel and contrarian approach he sees how machines through the ages have enabled creativity not stifled it and The Uncanny Muse sees no reason why this shouldn't be the case with AI today

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

Business Case Studies with Management lessons -Volume 1 Dr. Sanjeevni Gangwani, 2025-05-12 This book is very useful for teaching any management course through case studies Cases are written in a very simple language so that all students at the graduate level post graduate level can understand its application Case studies are very important to be taken for teaching management in any type of course as it immerses students in real world scenarios fostering critical thinking problem solving and decision making skills while also bridging the gap between theory and practice Case studies present complex real life situations or problems that managers have faced allowing students to analyze discuss and propose solutions They encourage active participation and engagement moving beyond passive learning by placing students in the role of decision makers The emphasis is on the analytical process and the reasoning behind decisions rather than solely on finding a correct answer Case studies can encompass various management disciplines allowing for a holistic understanding of organizational challenges They are a form of problem based learning where students learn by grappling with real world problems There are various benefits of using case studies in teaching management courses Case studies enhance critical thinking analytical abilities communication skills and interpersonal skills Students practice making decisions under pressure weighing different options and understanding the consequences of their choices They bridge the gap between theory and practice allowing students to apply their knowledge to real world scenarios The real world nature of case studies makes learning more engaging and relevant for

students Case studies encourage open discussion and debate fostering a collaborative learning environment Successfully navigating complex case studies can build students confidence in their abilities as future managers This book consists of diverse case studies related to various sectors It also includes the case objective overview of company summary and conclusion and questions for discussion I hope management faculty in all types of business school worldwide will find this comprehensive book on business case studies very helpful for class room teaching group discussions and even for giving assignment to students for internal assessment I wish you all a happy learning process and I hope all my efforts in compiling varied cases will contribute for better management learning and student engagement

Large Language Models John Atkinson-Abutridy,2024-10-17 This book serves as an introduction to the science and applications of Large Language Models LLMs You ll discover the common thread that drives some of the most revolutionary recent applications of artificial intelligence AI from conversational systems like ChatGPT or BARD to machine translation summary generation question answering and much more At the heart of these innovative applications is a powerful and rapidly evolving discipline natural language processing NLP For more than 60 years research in this science has been focused on enabling machines to efficiently understand and generate human language The secrets behind these technological advances lie in LLMs whose power lies in their ability to capture complex patterns and learn contextual representations of language How do these LLMs work What are the available models and how are they evaluated This book will help you answer these and many other questions With a technical but accessible introduction You will explore the fascinating world of LLMs from its foundations to its most powerful applications You will learn how to build your own simple applications with some of the LLMs Designed to guide you step by step with six chapters combining theory and practice along with exercises in Python on the Colab platform you will master the secrets of LLMs and their application in NLP From deep neural networks and attention mechanisms to the most relevant LLMs such as BERT GPT 4 LLaMA Palm 2 and Falcon this book guides you through the most important achievements in NLP Not only will you learn the benchmarks used to evaluate the capabilities of these models but you will also gain the skill to create your own NLP applications It will be of great value to professionals researchers and students within AI data science and beyond

Azure for Developers Kamil Mrzygłód,2025-07-30 Advance your development career by mastering Microsoft Azure s latest tools and technologies to enhance existing applications and build powerful cloud native solutions Key Features Build and deploy Azure apps with web serverless and container based architectures Create end to end cloud solutions on Azure by integrating AI services monitoring tools and DevOps Upskill confidently with practical insights and real world development practices Purchase of the print or Kindle book includes a free PDF eBook Book

DescriptionSupercharge your development career by mastering Azure s evolving GenAI container and serverless capabilities to build scalable secure applications with confidence This third edition of Azure for Developers transforms complex cloud concepts into practical skills guiding you through the design deployment and management of cloud native solutions while

eliminating infrastructure headaches Fully updated with Azure s latest features this hands on guide helps you automate DevOps pipelines with GitHub Actions deploy microservices using containers and integrate generative AI via Azure OpenAI to modernize your development workflows You will learn how to set up your environment streamline app deployment and implement robust service integrations using real world best practices The final section is a game changer for developers who want to stay ahead of the curve It shows you how to leverage Azure s AI and machine learning services to automate tasks fine tune models and build intelligent assistants and next generation workflows By the end you will have the confidence and capabilities to deliver production grade cloud solutions that meet real world demands and position yourself at the forefront of modern cloud development What you will learn Integrate data solutions like Azure Storage and managed SQL databases into your applications Embed monitoring into your application using Application Insights SDK Develop serverless solutions with Azure Functions and Durable Functions Automate CI CD workflows with GitHub Actions and Azure integration Build and manage containers using Azure Container Apps Azure Container Registry ACR and App Service Design powerful workflows with both low code and full code approaches Enhance applications with AI and machine learning components Who this book is for This book is for cloud developers and engineers building applications with Microsoft Azure as well as those looking to begin a career in Azure development While a basic understanding of programming concepts is recommended the book covers both basic and advanced ideas and solutions making it valuable for beginners and experienced developers looking to enhance their skills

The The Reinforcement Learning Workshop Alessandro Palmas,Emanuele Ghelfi,Dr. Alexandra Galina Petre,Mayur Kulkarni,Anand N.S.,Quan Nguyen,Aritra Sen,Anthony So,Saikat Basak,2020-08-18 Start with the basics of reinforcement learning and explore deep learning concepts such as deep Q learning deep recurrent Q networks and policy based methods with this practical guide Key FeaturesUse TensorFlow to write reinforcement learning agents for performing challenging tasksLearn how to solve finite Markov decision problemsTrain models to understand popular video games like BreakoutBook Description Various intelligent applications such as video games inventory management software warehouse robots and translation tools use reinforcement learning RL to make decisions and perform actions that maximize the probability of the desired outcome This book will help you to get to grips with the techniques and the algorithms for implementing RL in your machine learning models Starting with an introduction to RL you ll be guided through different RL environments and frameworks You ll learn how to implement your own custom environments and use OpenAI baselines to run RL algorithms Once you ve explored classic RL techniques such as Dynamic Programming Monte Carlo and TD Learning you ll understand when to apply the different deep learning methods in RL and advance to deep Q learning The book will even help you understand the different stages of machine based problem solving by using DQN on a popular video game Breakout Finally you ll find out when to use a policy based method to tackle an RL problem By the end of The Reinforcement Learning Workshop you ll be equipped with the knowledge and skills needed to solve challenging problems using

reinforcement learning What you will learn Use OpenAI Gym as a framework to implement RL environments Find out how to define and implement reward function Explore Markov chain Markov decision process and the Bellman equation Distinguish between Dynamic Programming Monte Carlo and Temporal Difference Learning Understand the multi armed bandit problem and explore various strategies to solve it Build a deep Q model network for playing the video game Breakout Who this book is for If you are a data scientist machine learning enthusiast or a Python developer who wants to learn basic to advanced deep reinforcement learning algorithms this workshop is for you A basic understanding of the Python language is necessary

Banking on (Artificial) Intelligence Theodora Lau, 2025-02-12 There is no lack of hype around artificial intelligence We have only begun to scratch the surface of what this powerful technology can do While tech and financial services become more intertwined cutting through the noise has become more difficult but also more crucial As a technology AI is essential to advancing innovation to creating efficiencies and enhancing productivity while capturing opportunities by both incumbent financial institutions as well as fintechs But it also comes with risks and potential for biases and disinformation that can deepen inequalities and erode trust in our society Responsible innovation must become part of our DNA and not as an afterthought This book provides a tailored overview of what AI specifically means for financial services a highly regulated yet also disrupted industry It investigates the current state of AI applications in financial services today along with the state of funding and partnerships between tech and banking industries It also examines the key pillars of responsible AI and the importance of keeping humans in the loop The book takes a deep dive into the use cases in the financial services industry the challenges and opportunities and the fragmented regulatory landscape How can we effectively assess risks and balance innovation and customer centricity with trust in AI in financial services Can smaller organizations reap the benefits of the technology How can institutions deploy AI responsibly and securely and promote a fairer and more equitable future for more people While data is about bits and bytes the realities of AI is very much human This book will help spark dialogue and collaboration as we journey into the future

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 Description Are 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

Fundamentals of Deep Learning Nithin Buduma,Nikhil Buduma,Joe Papa,2022-05-16 We re in the midst of an AI research explosion Deep learning has unlocked superhuman perception to power our push toward creating self driving vehicles defeating human experts at a variety of difficult games including Go and even generating essays with shockingly coherent prose But deciphering these breakthroughs often takes a PhD in machine learning and mathematics The updated second edition of this book describes the intuition behind these innovations without jargon or complexity Python proficient programmers software engineering professionals and computer science majors will be able to reimplement these breakthroughs on their own and reason about them with a level of sophistication that rivals some of the best developers in the field Learn the mathematics behind machine learning jargon Examine the foundations of machine learning and neural networks Manage problems that arise as you begin to make networks deeper Build neural networks that analyze complex images Perform effective dimensionality reduction using autoencoders Dive deep into sequence analysis to examine language Explore methods in interpreting complex machine learning models Gain theoretical and practical knowledge on generative modeling Understand the fundamentals of reinforcement learning

Private Equity in einer Welt von Unsicherheiten und Opportunitäten Dieter Gericke,2024-10-30 Dieser 9 Band zu Private Equity ist ein Muss f r Rechts Steuer und Finanzberater sowie Akteure der Private Equity und Venture Capital Welt Die Beitr ge decken Themen ab wie die

Besonderheiten bei M A Transaktionen durch Private Equity steuerliche Fragen der Akquisitionsstrukturierung sowie Sweet Equity Ferner werden Private Equity Investments in Publikumsgesellschaften PIPES und Take Privates beleuchtet und Fragen rund um das brisante Thema der Steward Ownership beantwortet Sie basieren auf den Vortr gen erfahrener Fachexperten anlässlich der 9 Tagung zu Private Equity des Europa Instituts an der Universität Zürich vom Januar 2024 Zusammen mit den bisher erschienen Bänden liegt ein Sammelwerk vorber die wichtigsten Themen von Private Equity und Venture Capital verfasst von führenden Experten auf diesem Gebiet

Sales Automation Anne Cordts, 2025-04-07 Dieses Buch befasst sich mit den Auswirkungen zunehmender Automatisierung im Vertrieb Als Konsequenz von Automatisierung nimmt die persönliche Interaktion zwischen Mitarbeiter und Kunde ab sodass der Vertrieb insgesamt weniger persönlich wird Anhand dreier Forschungsarbeiten werden in diesem Buch die Auswirkungen von Vertriebsautomatisierung auf die Kundeninteraktion und Kundenbeziehung untersucht und das sich wandelnde Anforderungsprofil von Vertriebsjobs beleuchtet Die erste Forschungsarbeit befasst sich mit der Fragestellung inwieweit das persönliche face to face Kommunikationsformat in der Kundeninteraktion durch virtuelle Kommunikationsformate bspw Video Calls ersetzt werden kann Die zweite Forschungsarbeit widmet sich KI generierten synthetischen Stimmen die in sprachbasierten Automatisierungstechnologien wie z B in virtuellen Sprachassistenten integriert werden die zunehmend von Unternehmen im Vertrieb an der Schnittstelle zum Kunden eingesetzt werden Die dritte Forschungsarbeit identifiziert Entwicklungen und Trends im Hinblick auf das zukünftige Anforderungsprofil von Vertriebsjobs

DeepSeek in Action Jing Dai, 2025-11-18 From fundamental concepts to advanced implementations this book thoroughly explores the DeepSeek V3 model focusing on its Transformer based architecture technological innovations and applications The book begins with a thorough examination of theoretical foundations including self attention positional encoding the Mixture of Experts mechanism and distributed training strategies It then explores DeepSeek V3's technical advancements including sparse attention mechanisms FP8 mixed precision training and hierarchical load balancing which optimize memory and energy efficiency Through case studies and API integration techniques the model's high performance capabilities in text generation mathematical reasoning and code completion are examined The book highlights DeepSeek's open platform and covers secure API authentication concurrency strategies and real time data processing for scalable AI applications Additionally the book addresses industry applications such as chat client development utilizing DeepSeek's context caching and callback functions for automation and predictive maintenance This book is aimed primarily at AI researchers and developers working on large scale AI models It is an invaluable resource for professionals seeking to understand the theoretical underpinnings and practical implementation of advanced AI systems particularly those interested in efficient scalable applications

AI Agents in Action Micheal Lanham, 2025-03-25 In AI Agents in Action you'll learn how to build production ready assistants multi agent systems and behavioral agents You'll master the essential parts of an agent including retrieval augmented knowledge and memory while

you create multi agent applications that can use software tools plan tasks autonomously and learn from experience As you explore the many interesting examples you ll work with state of the art tools like OpenAI Assistants API GPT Nexus LangChain Prompt Flow AutoGen and CrewAI

Large Language Models Projects Pere Martra,2024-09-18 This book offers you a hands on experience using models from OpenAI and the Hugging Face library You will use various tools and work on small projects gradually applying the new knowledge you gain The book is divided into three parts Part one covers techniques and libraries Here you ll explore different techniques through small examples preparing to build projects in the next section You ll learn to use common libraries in the world of Large Language Models Topics and technologies covered include chatbots code generation OpenAI API Hugging Face vector databases LangChain fine tuning PEFT fine tuning soft prompt tuning LoRA QLoRA evaluating models and Direct Preference Optimization Part two focuses on projects You ll create projects understanding design decisions Each project may have more than one possible implementation as there is often not just one good solution You ll also explore LLMops related topics Part three delves into enterprise solutions Large Language Models are not a standalone solution in large corporate environments they are one piece of the puzzle You ll explore how to structure solutions capable of transforming organizations with thousands of employees highlighting the main role that Large Language Models play in these new solutions This book equips you to confidently navigate and implement Large Language Models empowering you to tackle diverse challenges in the evolving landscape of language processing What You Will Learn Gain practical experience by working with models from OpenAI and the Hugging Face library Use essential libraries relevant to Large Language Models covering topics such as Chatbots Code Generation OpenAI API Hugging Face and Vector databases Create and implement projects using LLM while understanding the design decisions involved Understand the role of Large Language Models in larger corporate settings Who This Book Is For Data analysts data science Python developers and software professionals interested in learning the foundations of NLP LLMs and the processes of building modern LLM applications for various tasks

Natural Language Processing with Python Quantum Technologies LLC,2025-01-16 Learn NLP with Python through practical exercises advanced topics like transformers and real world projects such as chatbots and dashboards A comprehensive guide for mastering NLP techniques Key Features A comprehensive guide to processing analyzing and modeling human language with Python Real world projects that reinforce NLP concepts including chatbot design and sentiment analysis Foundational and advanced NLP techniques for practical applications in diverse domains Book DescriptionEmbark on a comprehensive journey to master natural language processing NLP with Python Begin with foundational concepts like text preprocessing tokenization and key Python libraries such as NLTK spaCy and TextBlob Explore the challenges of text data and gain hands on experience in cleaning tokenizing and building basic NLP pipelines Early chapters provide practical exercises to solidify your understanding of essential techniques Advance to sophisticated topics like feature engineering using Bag of Words TF IDF and embeddings like Word2Vec and BERT Delve into language

modeling with RNNs syntax parsing and sentiment analysis learning to apply these techniques in real world scenarios Chapters on topic modeling and text summarization equip you to extract insights from data while transformer based models like BERT take your skills to the next level Each concept is paired with Python based examples ensuring practical mastery The final chapters focus on real world projects such as developing chatbots sentiment analysis dashboards and news aggregators These hands on applications challenge you to design train and deploy robust NLP solutions With its structured approach and practical focus this book equips you to confidently tackle real world NLP challenges and innovate in the field What you will learn Clean and preprocess text data using Python effectively Master tokenization techniques for words sentences and characters Build robust NLP pipelines with feature engineering methods Implement sentiment analysis with machine learning models Perform topic modeling using LDA LSA and other algorithms Develop chatbots and dashboards for real world applications Who this book is for This book is ideal for students researchers and professionals in machine learning data science and artificial intelligence who want to master NLP Beginners will benefit from the step by step introduction to text processing and feature engineering while experienced practitioners can explore advanced topics like transformers and real world projects Basic knowledge of Python and familiarity with programming concepts are recommended to fully utilize the content Enthusiasts with a passion for language technology will also find this guide valuable for building practical NLP applications

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