

OpenAI pricing

GPT-4



Model	Prompt	Completion
8K context	\$0.03 / 1K tokens	\$0.06 / 1K tokens
32K context	\$0.06 / 1K tokens	\$0.12 / 1K tokens

Chat



Model	Input	Output
4K context	\$0.0015 / 1K tokens	\$0.002 / 1K tokens
16K context	\$0.003 / 1K tokens	\$0.004 / 1K tokens

InstructGPT



Model	Usage
Ada	\$0.0004 / 1K tokens
Babbage	\$0.0005 / 1K tokens
Curie	\$0.0020 / 1K tokens
Davinci	\$0.0200 / 1K tokens

Image models



Resolution	Price
1024×1024	\$0.020 / image
512×512	\$0.018 / image
256×256	\$0.016 / image

Embedding models



Model	Usage
Ada v2	\$0.0001 / 1K tokens
Ada v1	\$0.0040 / 1K tokens
Babbage v1	\$0.0050 / 1K tokens
Curie v1	\$0.0200 / 1K tokens
Davinci v1	\$0.2000 / 1K tokens

Fine-tuning models



Model	Training	Usage
Ada	\$0.0004 / 1K tokens	\$0.0016 / 1K tokens
Babbage	\$0.0006 / 1K tokens	\$0.0024 / 1K tokens
Curie	\$0.0030 / 1K tokens	\$0.0120 / 1K tokens
Davinci	\$0.0300 / 1K tokens	\$0.1200 / 1K tokens

Audio models

Model	Usage
Whisper	\$0.006 / minute (rounded to the nearest second)



Openai Price Returns

Alfio Quarteroni

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Openai Price 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 Future of Finance with ChatGPT and Power BI James Bryant, Alok Mukherjee, 2023-12-29 Enhance decision making transform your market approach and find investment opportunities by exploring AI finance and data visualization with ChatGPT's analytics and Power BI's visuals Key Features Automate Power BI with ChatGPT for quick and competitive financial insights giving you a strategic edge Make better data driven decisions with practical examples of financial analysis and reporting Learn the step by step integration of ChatGPT financial analysis and Power BI for real world success Purchase of the print or Kindle book includes a free PDF eBook Book Description In today's rapidly evolving economic landscape the combination of finance analytics and artificial intelligence AI heralds a new era of decision making Finance and data analytics along with AI can no longer be seen as separate disciplines and professionals have to be comfortable in both in order to be successful This book combines finance concepts visualizations through Power BI and the application of AI and ChatGPT to provide a more holistic perspective After a brief introduction to finance and Power BI you will begin with Tesla's data driven financial tactics before moving to John Deere's AgTech strides all through the lens of AI Salesforce's adaptation to the AI revolution offers profound insights while Moderna's navigation through the biotech frontier during the pandemic showcases the agility of AI focused companies Learn from Silicon Valley Bank's demise

and prepare for CrowdStrike's defensive maneuvers against cyber threats With each chapter you'll gain mastery over new investing ideas Power BI tools and integrate ChatGPT into your workflows This book is an indispensable ally for anyone looking to thrive in the financial sector By the end of this book you'll be able to transform your approach to investing and trading by blending AI-driven analysis data visualization and real-world applications What you will learn Dominate investing trading and reporting with ChatGPT's game-changing insights Master Power BI for dynamic financial visuals custom dashboards and impactful charts Apply AI and ChatGPT for advanced finance analysis and natural language processing NLP in news analysis Tap into ChatGPT for powerful market sentiment analysis to seize investment opportunities Unleash your financial analysis potential with data modeling source connections and Power BI integration Understand the importance of data security and adopt best practices for using ChatGPT and Power BI Who this book is for This book is for students academics data analysts and AI enthusiasts eager to leverage ChatGPT for financial analysis and forecasting It's also suitable for investors traders financial pros business owners and entrepreneurs interested in analyzing financial data using Power BI To get started with this book understanding the fundamentals of finance investment trading and data analysis along with proficiency in tools like Power BI and Microsoft Excel is necessary While prior knowledge of AI and ChatGPT is beneficial it is not a prerequisite

Enterprise Information Systems Joaquim Filipe, Michał Śmiałek, Alexander Brodsky, Slimane Hammoudi, 2024-07-25 This two-volume set constitutes the refereed post-conference proceedings of the 25th International Conference on Enterprise Information Systems ICEIS 2023 which was held in Prague Czech Republic during April 2023 The 41 full papers and 66 short papers presented were carefully reviewed and selected from 213 submissions They are organized in topical sections as follows Part One Databases and Information Systems Integration Artificial Intelligence and Decision Support Systems and Information Systems Analysis and Specification Part Two Software Agents and Internet Computing Human Computer Interaction and Enterprise Architecture

Pipeline for Automated Code Generation from Backlog Items (PACGBI) Mahja Sarschar, 2025-01-31 This book investigates the potential and limitations of using Generative AI GenAI in terms of quality and capability in agile web development projects using React For this purpose the Pipeline for Automated Code Generation from Backlog Items PACGBI was implemented and used in a case study to analyse the AI-generated code with a mix-method approach The findings demonstrated the ability of GenAI to rapidly generate syntactically correct and functional code with Zero Shot prompting The PACGBI showcases the potential for GenAI to automate the development process especially for tasks with low complexity However this research also identified challenges with code formatting maintainability and user interface implementation attributed to the lack of detailed functional descriptions of the task and the appearance of hallucinations Despite these limitations the book underscores the significant potential of GenAI to accelerate the software development process and highlights the need for a hybrid approach that combines GenAI's strengths with human expertise for complex tasks Further the findings provide valuable insights for practitioners considering GenAI

integration into their development processes and set a foundation for future research in this field

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

AI Value Creators Rob Thomas, Paul Zikopoulos, Kate Soule, 2025-04 We ve arrived in a new era GenAI is reshaping industries and decision making processes across the board As a result understanding their potential and pitfalls has become crucial But in order to stay ahead of the curve you ll need to develop fresh perspectives on leveraging AI beyond mere technical know how Geared toward business leaders and tech professionals alike this book demystifies the strategic integration of AI into business practices ensuring you re equipped not just to participate but to lead in this new landscape This insightful guide by industry leaders Rob Thomas Paul Zikopoulos and Kate Soule goes beyond the basics offering real life success stories and learned lessons to provide a blueprint for meaningful AI engagement Whether you re a novice or a seasoned expert you ll come away with an enhanced understanding of GenAI Recognize the transformative potential of AI in business and how to harness it Navigate the ethical and operational challenges posed by AI with confidence Understand the dynamic interplay between AI technology and business strategy Implement actionable strategies to integrate AI into your organizational culture Step confidently into the role of an AI value creator equipped to lead and innovate

Data Analysis with LLMs Immanuel Trummer, 2025-05-13 Speed up common data science tasks with AI assistants like ChatGPT and Large Language Models LLMs from Anthropic Cohere Open AI Google Hugging Face and more Data Analysis with LLMs teaches you to use the new generation of AI assistants and Large Language Models LLMs to aid and accelerate common data science tasks Learn how to use LLMs to Analyze text tables images and audio files Extract information from multi modal data lakes Classify cluster transform and query multimodal data Build natural language query interfaces over structured data sources Use LangChain to build complex data analysis pipelines Prompt engineering and model configuration All practical Data Analysis with LLMs takes you from your first prompts through advanced techniques like creating LLM based agents for data analysis and fine

tuning existing models You ll learn how to extract data build natural language query interfaces and much more About the technology Large Language Models LLMs can streamline and accelerate almost any data science task Master the techniques in this book and you ll be able to analyze large amounts of text tabular and graph data images videos and more with clear natural language prompts and a few lines of Python code About the book Data Analysis with LLMs shows you exactly how to integrate generative AI into your day to day work as a data scientist In it Cornell professor Immanuel Trummer guides you through a series of engaging projects that introduce OpenAI s Python library tools like LangChain and LlamaIndex and LLMs from Anthropic Cohere and Hugging Face As you go you ll use AI to query structured and unstructured data analyze sound and images and optimize the cost and quality of your data analysis process What s inside Classify cluster transform and query multimodal data Build natural language query interfaces over structured data sources Create LLM based agents for autonomous data analysis Prompt engineering and model configuration About the reader For data scientists and data analysts who know the basics of Python About the author Immanuel Trummer is an associate professor of computer science at Cornell University and a member of the Cornell Database Group Table of Contents Part 1 1 Analyzing data with large language models 2 Chatting with ChatGPT Part 2 3 The OpenAI Python library 4 Analyzing text data 5 Analyzing structured data 6 Analyzing images and videos 7 Analyzing audio data Part 3 8 GPT alternatives 9 Optimizing cost and quality 10 Software frameworks

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 *Generative AI for Everyone* Karthikeyan Sabesan,Sivagamisundari,Nilip Dutta,2025-01-25 DESCRIPTION Generative AI is revolutionizing the way we interact with technology Imagine creating hyper realistic images composing original music pieces or generating creative text formats all with the help of AI This book provides a comprehensive exploration of generative AI and its transformative impact across various industries This book begins with the basics of AI explaining ML and design patterns to build a solid foundation It delves deeply into generative AI and then progresses through machine learning deep learning and essential architectures

such as CNNs GANs Diffusion RNNs LSTMs and Transformers It covers practical applications from regression and classification to advanced use cases such as image generation editing document search content summarization and question answering Readers will also learn to build prototypes like a Document Q A bot research assistant and prompt playground while mastering techniques such as continued pre training fine tuning model merging retrieval augmented generation and agentic AI By the end of this book you will transform from a curious beginner to a confident generative AI user You will possess the knowledge and skills to explore its capabilities for creative expression problem solving and even business innovation You will be able to confidently navigate the world of generative AI turning your ideas into reality

KEY FEATURES

Explore the entire spectrum of generative AI from fundamental AI concepts to advanced LLM applications Includes practical examples code snippets and real world case studies to enhance learning and understanding Learn how to use generative AI for business applications including ethical considerations

WHAT YOU WILL LEARN

Explore concepts of AI ML deep learning and generative AI Learn about computer vision and generative image AI supported by coding examples Discover NLP Techniques Transformer architecture components and generative text AI supported by coding examples Understand prompt engineering and LLM frameworks while building prototypes Examine the role of LLM operations throughout the entire LLM lifecycle Investigate the potential impact of generative AI on enterprises and develop business strategies

WHO THIS BOOK IS FOR

This book is ideal for anyone curious about generative AI regardless of their prior technical expertise Whether you are a business professional a student an artist or simply someone fascinated by the future of technology this book will provide you with a clear and accessible understanding of this groundbreaking field

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Artificial Intelligence All-in-One For Dummies Chris Minnick, John Paul Mueller, Luca Massaron, Stephanie Diamond, Pam Baker, Daniel Stanton, Shiv Singh, Paul Mladjenovic, Sheryl Lindsell-Roberts, Jeffrey Allan, 2025-05-15

A comprehensive roadmap to using AI in your career and in your life Artificial intelligence is everywhere Major software organizations like Microsoft Google and Apple have built AI directly into products and invited the world to become part of the AI revolution And it s impossible to use these tools to their fullest potential without understanding the basics of what AI is and what it can do Artificial Intelligence All in One For Dummies compiles insight from the expert authors of AI books in the For Dummies series to provide an easy to follow walkthrough for anyone interested in learning how to use AI You ll learn how to put artificial intelligence to work for you and your company in a wide variety of situations from creating office assistants to managing projects and marketing your products Inside the book How to prompt AI platforms like ChatGPT and Copilot while avoiding hallucinations and other bugs Strategies for adding artificial intelligence tools to your company s existing workflows to improve efficiency and generate new opportunities Techniques to improve your

programming capabilities with AI or create new AI powered tools Perfect for professionals curious about the potential and pitfalls associated with generative artificial intelligence Artificial Intelligence All in One For Dummies shows you exactly how AI works and how you can apply it in your own professional and personal life Machine Learning Upgrade Kristen Kehrer,Caleb Kaiser,2024-07-29 A much needed guide to implementing new technology in workspaces From experts in the field comes Machine Learning Upgrade A Data Scientist s Guide to MLOps LLMs and ML Infrastructure a book that provides data scientists and managers with best practices at the intersection of management large language models LLMs machine learning and data science This groundbreaking book will change the way that you view the pipeline of data science The authors provide an introduction to modern machine learning showing you how it can be viewed as a holistic end to end system not just shiny new gadget in an otherwise unchanged operational structure By adopting a data centric view of the world you can begin to see unstructured data and LLMs as the foundation upon which you can build countless applications and business solutions This book explores a whole world of decision making that hasn t been codified yet enabling you to forge the future using emerging best practices Gain an understanding of the intersection between large language models and unstructured data Follow the process of building an LLM powered application while leveraging MLOps techniques such as data versioning and experiment tracking Discover best practices for training fine tuning and evaluating LLMs Integrate LLM applications within larger systems monitor their performance and retrain them on new data This book is indispensable for data professionals and business leaders looking to understand LLMs and the entire data science pipeline **Building AI Applications with ChatGPT APIs** Martin Yanev,2023-09-21 Enhance your application development skills by building a ChatGPT clone code bug fixer quiz generator translation app email auto reply PowerPoint generator and more in just one read Key Features Become proficient in building AI applications with ChatGPT DALL E and Whisper Understand how to select the optimal ChatGPT model and fine tune it for your specific use case Monetize your applications by integrating the ChatGPT API with Stripe Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionCombining ChatGPT APIs with Python opens doors to building extraordinary AI applications By leveraging these APIs you can focus on the application logic and user experience while ChatGPT s robust NLP capabilities handle the intricacies of human like text understanding and generation This book is a guide for beginners to master the ChatGPT Whisper and DALL E APIs by building ten innovative AI projects These projects offer practical experience in integrating ChatGPT with frameworks and tools such as Flask Django Microsoft Office APIs and PyQt Throughout this book you ll get to grips with performing NLP tasks building a ChatGPT clone and creating an AI driven code bug fixing SaaS application You ll also cover speech recognition text to speech functionalities language translation and generation of email replies and PowerPoint presentations This book teaches you how to fine tune ChatGPT and generate AI art using DALL E APIs and then offers insights into selling your apps by integrating ChatGPT API with Stripe With practical examples available on GitHub the book gradually

progresses from easy to advanced topics cultivating the expertise required to develop deploy and monetize your own groundbreaking applications by harnessing the full potential of ChatGPT APIs What you will learn Develop a solid foundation in using the ChatGPT API for natural language processing tasks Build deploy and capitalize on a variety of desktop and SaaS AI applications Seamlessly integrate ChatGPT with established frameworks such as Flask Django and Microsoft Office APIs Channel your creativity by integrating DALL E APIs to produce stunning AI generated art within your desktop applications Experience the power of Whisper API s speech recognition and text to speech features Discover techniques to optimize ChatGPT models through the process of fine tuning Who this book is for With best practices tips and tricks for building applications using the ChatGPT API this book is for programmers entrepreneurs and software enthusiasts Python developers interested in AI applications involving ChatGPT software developers who want to integrate AI technology and web developers looking to create AI powered web applications with ChatGPT will also find this book useful A fundamental understanding of Python programming and experience of working with APIs will help you make the most of this book [Quick Start Guide to Large Language Models](#) Sinan Ozdemir,2024-09-26 The Practical Step by Step Guide to Using LLMs at Scale in Projects and Products Large Language Models LLMs like Llama 3 Claude 3 and the GPT family are demonstrating breathtaking capabilities but their size and complexity have deterred many practitioners from applying them In Quick Start Guide to Large Language Models Second Edition pioneering data scientist and AI entrepreneur Sinan Ozdemir clears away those obstacles and provides a guide to working with integrating and deploying LLMs to solve practical problems Ozdemir brings together all you need to get started even if you have no direct experience with LLMs step by step instructions best practices real world case studies and hands on exercises Along the way he shares insights into LLMs inner workings to help you optimize model choice data formats prompting fine tuning performance and much more The resources on the companion website include sample datasets and up to date code for working with open and closed source LLMs such as those from OpenAI GPT 4 and GPT 3 5 Google BERT T5 and Gemini X Grok Anthropic the Claude family Cohere the Command family and Meta BART and the LLaMA family Learn key concepts pre training transfer learning fine tuning attention embeddings tokenization and more Use APIs and Python to fine tune and customize LLMs for your requirements Build a complete neural semantic information retrieval system and attach to conversational LLMs for building retrieval augmented generation RAG chatbots and AI Agents Master advanced prompt engineering techniques like output structuring chain of thought prompting and semantic few shot prompting Customize LLM embeddings to build a complete recommendation engine from scratch with user data that outperforms out of the box embeddings from OpenAI Construct and fine tune multimodal Transformer architectures from scratch using open source LLMs and large visual datasets Align LLMs using Reinforcement Learning from Human and AI Feedback RLHF RLAIIF to build conversational agents from open models like Llama 3 and FLAN T5 Deploy prompts and custom fine tuned LLMs to the cloud with scalability and evaluation pipelines in mind Diagnose and optimize LLMs for speed

memory and performance with quantization probing benchmarking and evaluation frameworks A refreshing and inspiring resource Jam packed with practical guidance and clear explanations that leave you smarter about this incredible new field Pete Huang author of The Neuron Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details *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 DescriptionTransformers 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

Using Generative AI for SEO Eric Enge,Adrián Ridner,2025-07-02 Generative AI has brought artificial intelligence into

the mainstream The natural language capabilities of this technology provide digital marketers with exciting new ways to use AI in their day to day operations Yet few SEO practitioners understand how to integrate this capability into their business Using Generative AI for SEO is the first authoritative book dedicated to helping SEO practitioners effectively incorporate generative AI into their work No matter where you are in your SEO journey it s critical to get started so that your organization can gain a competitive advantage This book provides the necessary background knowledge skills and practical examples to get you working quickly and confidently with this essential new tool Understand how generative AI can help you impact SEO Explore practical applications you can use right now Learn the competencies you ll need to ensure your toolkit remains relevant Improve content creation throughput while improving quality Consider risks and limitations of AI applications in SEO Build a generative AI capability within your organization

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 *Python OpenAI API* Python, 2023-11-25 Python Python OpenAI API AI Python Python I O tkinter Python Python Python Python I O tkinter ChatGPT OpenAI Python Python OpenAI API ChatGPT Python OpenAI API Python GUI Python Python AI **Artificial Intelligence** Alfio Quarteroni, 2025-07-19 Artificial intelligence AI is transforming multiple aspects of human life raising fundamental questions Is AI truly intelligent Can it surpass human capabilities What are its risks and opportunities In this book I aim to clarify what AI really is debunking myths while offering a rigorous balanced perspective on its impact Rather than chasing the latest AI trends I will focus on the core principles that define it tracing its evolution from early pioneers like Alan Turing to today s advanced systems AI remains in the realm of narrow intelligence excelling at specific tasks but far from replicating human cognition Yet its ability to process vast data predict behaviors and generate creative content is reshaping industries from healthcare to finance At the heart of AI s progress is machine learning particularly neural networks which rely more on data driven training than traditional scientific theory However this innovation comes with challenges environmental costs job market disruptions ethical dilemmas and the black box problem AI s decision making opacity which raises concerns about trust and accountability AI also plays a growing role in global power dynamics influencing governance security and even democracy Nations leading AI development gain strategic advantages but without careful regulation AI could fuel inequality surveillance and manipulation Despite the fears AI evokes it is neither an existential threat nor a magical solution My goal is not to celebrate or demonize it but to provide a critical framework for understanding this technological revolution By fostering awareness we can shape AI s integration into society in a way that aligns with human values and scientific progress

Anwendungen mit GPT-4 und ChatGPT entwickeln Olivier Caelen, Marie-Alice Blete, 2025-01-28 Nutzen Sie die Leistungsfähigkeit von Large Language Models für wirklich innovative Anwendungen Dieses Buch vermittelt Ihnen Schritt für Schritt das notwendige Wissen um GPT 4 und ChatGPT in Ihre eigenen Projekte zu integrieren Es verbindet nahtlos Theorie und Praxis und macht die Komplexität von GPT 4 und GPT 3.5 für Programmiererinnen verständlich Die Themen reichen von den grundlegenden Prinzipien der LLMs und der API Integration bis hin zu Prompt Engineering und Feintuning Die aktualisierte und erweiterte 2. Auflage behandelt neben GPT 4 und GPT 3.5 jetzt auch GPT 4o sowie das Thema Multimodalität Diese Einführung zeigt Python Entwicklerinnen und Entwicklern wie sie Anwendungen mit Large Language Models erstellen Olivier Caelen und Marie-Alice Blete erklären die wichtigsten Features von GPT 4 und GPT 3.5 und beschreiben wie sie für eigene NLP Aufgaben eingesetzt werden können In nachvollziehbaren Schritten wird erläutert wie Sie mithilfe der OpenAI Python Bibliothek Applikationen zur Textgenerierung für das Question Answering oder für intelligente Assistenten entwickeln Anschauliche Beispiele sowie klare und detaillierte Erklärungen unterstützen Sie dabei die Konzepte zu verstehen und sie auf

Ihre Projekte anzuwenden Die Codebeispiele sind in einem GitHub Repository verfügbar Zudem enthält das Buch ein Glossar mit den wichtigsten Begriffen Für diese 2. Auflage wurde das Buch aktualisiert und deutlich erweitert es berücksichtigt die neuesten Entwicklungen in der KI Technologie wie beispielsweise GPT-4o und Multimodalität Sind Sie bereit das Potenzial von Large Language Models in Ihren Anwendungen zu nutzen Dann ist dieses Buch ein Muss für Sie Es behandelt Grundlagen und Stärken von GPT-4 und GPT-3.5 Modellen und deren Funktionsweise Die Integration dieser Modelle in Python-basierte Anwendungen für Aufgaben im Natural Language Processing Beispielprojekte die den Einsatz der OpenAI API für Aufgaben wie Texterstellung Inhaltszusammenfassung Dokumentenklassifikation oder Sentimentanalyse demonstrieren Fortgeschrittene LLM Themen wie das Prompt Engineering das Optimieren von Modellen RAG Plugins LangChain LlamaIndex und KI Assistenten

Coding with AI For Dummies Chris Minnick, 2024-03-26 Boost your coding output and accuracy with artificial intelligence tools Coding with AI For Dummies introduces you to the many ways that artificial intelligence can make your life as a coder easier Even if you're brand new to using AI this book will show you around the new tools that can produce, examine and fix code for you With AI you can automate processes like code documentation, debugging, updating and optimization The time saved thanks to AI lets you focus on the core development tasks that make you even more valuable Learn the secrets behind coding assistant platforms and get step-by-step instructions on how to implement them to make coding a smoother process Thanks to AI and this Dummies guide you'll be coding faster and better in no time Discover all the core coding tasks boosted by artificial intelligence Meet the top AI coding assistance platforms currently on the market Learn how to generate documentation with AI and use AI to keep your code up to date Use predictive tools to help speed up the coding process and eliminate bugs This is a great Dummies guide for new and experienced programmers alike Get started with AI coding and expand your programming toolkit with Coding with AI For Dummies

Unveiling the Power of Verbal Art: An Mental Sojourn through **Openai Price Returns**

In some sort of inundated with screens and the cacophony of instant transmission, the profound power and psychological resonance of verbal art usually fade into obscurity, eclipsed by the regular onslaught of noise and distractions. Yet, situated within the musical pages of **Openai Price Returns**, a fascinating perform of literary splendor that pulses with raw feelings, lies an unique journey waiting to be embarked upon. Penned by a virtuoso wordsmith, that enchanting opus guides viewers on a mental odyssey, lightly exposing the latent possible and profound impact stuck within the complex web of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book is key subjects, dissect its captivating publishing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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