

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 Tutorial

Adrián González Sánchez

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 Tutorial:

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

Technical Writing for Software Developers Chris Chinchilla, 2024-03-29 Elevate your software development process with expert technical writing skills fostering clarity collaboration and successful product outcomes Key Features Optimize documentation workflows with collaborative version controlled docs as code tooling options Engage with interactive learning modules embedded throughout the book Improve software quality as a lead developer through effective communication in documentation Purchase of the print or Kindle book includes a free PDF eBook Book Description Effective documentation is key to the success of products in remote software development teams facilitating clear instructions that benefit the entire development team Technical Writing for Software Developers lays a solid foundation of essential grammar providing language tips and explaining how precise writing enhances documentation and walks you through the fundamental types and styles of documentation Starting with an exploration of the current state of the tech writing industry and its significance in both the software and hardware realms you'll master the building blocks of technical writing exploring tooling choices and style guides and create dynamic multimedia laden documentation This book equips you with valuable insights

into the writing and feedback process to ensure continuous improvement Additionally you ll take a peek at the emerging trends and technologies including AI tools shaping the future of technical writing By the end of this technical writing book you ll have developed the expertise you need to tackle documentation requests effectively armed with the knowledge of the best approach for documenting any topic encompassing text media elements structure and appropriate tools The skills acquired will enable you to achieve seamless teamwork enhanced project efficiency and successful software development What you will learn Create engaging multimedia rich documentation Understand the types and styles of documentation Discover grammar and language tips for clear communication Streamline your documentation process with the right tooling choice Master the writing and feedback process for continuous improvement Explore automation techniques for efficient documentation workflows Embrace AI powered tools for enhanced technical writing Who this book is for This book is for software developers who want to improve their technical writing prowess Whether you are a junior developer looking to refine your documentation skills or a professional striving for smoother collaboration this resource equips you with all the essential knowledge and practical insights you need Covering everything from creating clear documentation to enhancing career prospects this book caters to a diverse range of software developers including programmers software architects and software engineers looking to streamline the product development process and save time

Artificial Intelligence in Education. Posters and Late Breaking Results, Workshops and Tutorials, Industry and Innovation Tracks, Practitioners, Doctoral Consortium and Blue Sky Andrew M. Olney,Irene-Angelica Chounta,Zitao Liu,Olga C. Santos,Ig Ibert Bittencourt,2024-07-01 This volume constitutes poster papers and late breaking results presented during the 25th International Conference on Artificial Intelligence in Education AIED 2024 which took place in Recife Brazil during July 8 12 2024 The 18 full papers and 92 short papers were carefully reviewed and selected from 200 submissions They are organized in topical sections as follows Part One Blue Sky Industry Innovation and Practitioner WideAIED and Late Breaking Results Part Two Late Breaking Results Doctoral Consortium Workshops and Tutorials

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.com DeitelFan](https://www.facebook.com/DeitelFan) [instagram.com DeitelFan](https://www.instagram.com/DeitelFan) [x.com deitel](https://twitter.com/deitel) [youtube.com DeitelTV](https://www.youtube.com/DeitelTV) [mastodon social deitel](https://mastodon.social/deitel) For source code and updates visit [deitel.com javafp5](https://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 AI s 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

The Lecturer's Toolkit Phil Race, Sally Brown, 2025-04-16 With a focus on practical implementable strategies to

enhance learning experiences the extensively updated sixth edition of The Lecturer's Toolkit is an essential guide for those new to teaching in Higher Education as well as a companion to improve the practice of more experienced teachers Centred around the Race model of learning which proposes a pragmatic exploration of how students learn it offers research informed practical tips and advice with question prompts to cement knowledge key tips to enhance best practice and chapter outcomes to help shape learning This edition has been fully updated to recognise changing approaches to higher education learning including online and distance learning and consideration of how of AI and Large Language Models are impacting on ways of teaching and assessing students Covering all of the need to know information that is essential to thrive in tertiary teaching environments this book includes information on Understanding how students really learn including online and hybrid learning Ways to increase student motivation and engagement Ways to design assessments that are both authentic and compassionate Pragmatic and positive ways of using feedback to enhance learning Practical advice on large and small group teaching Advice on looking after yourself in stressful working contexts Some thoughts on where higher education is moving next This accessible toolkit is based on decades of experience of higher education and is written with authority and clarity in a jargon free style An invaluable guide it is a must read for every higher education professional **ChatGPT For Dummies**

Pam Baker,2023-06-27 Learn how the disruptive AI chatbot is going to change school work and beyond ChatGPT For Dummies demystifies the artificial intelligence tool that can answer questions write essays and generate just about any kind of text it's asked for This powerful example of generative AI is widely predicted to upend education and business In this book you'll learn how ChatGPT works and how you can operate it in a way that yields satisfactory results You'll also explore the ethics of using AI generated content for various purposes Written by a journalist who's been on the front lines of artificial intelligence for over a decade this book dives deep into ChatGPT's potential so you can make informed decisions without asking ChatGPT for help Learn how ChatGPT works and how it fits into the world of generative AI Harness the power of ChatGPT to help you and avoid letting it hinder you Write queries that deliver the kind of response you want Take a look into how the ChatGPT API interacts with other tools and platforms This just in time Dummies title is perfect for any life or career may be impacted by ChatGPT and other AI ChatGPT is just the tip of the iceberg and this book can help you prepare for the future **Computational Science and Computational Intelligence**

Hamid R. Arabnia,Leonidas Deligiannidis,Farzan Shenavarmasouleh,Soheyla Amirian,Farid Ghareh Mohammadi,2025-08-09 The CCIS book constitutes selected papers accepted in the Research Track on Education of the 11th International Conference on Computational Science and Computational Intelligence CSCI 2024 which took place in Las Vegas NV USA during December 11-13 2024 The 26 full papers included in this book were carefully reviewed and selected from a total of 155 submissions They were organized in topical sections on subject specific education and curriculum design education and artificial intelligence teaching and learning strategies and related research studies **Unlocking the Potential of OpenAI's ChatGPT** DAVID YAO, Have you

heard of OpenAI's ChatGPT but have no idea what it is or how to use it. Look no further. This book provides a comprehensive introduction to this revolutionary language model. In this book, the author takes you through the history of ChatGPT and its capabilities as well as its practical applications in fields such as customer service, content creation, and data analysis. You'll also learn how ChatGPT works and what sets it apart from other language models. But that's not all; the book also provides hands-on examples and tutorials to help you put your newfound knowledge into practice. The author will also address the limitations of the model and provide tips on how to achieve optimal results. Whether you're a data scientist, business owner, or student, this book is a must-read for anyone looking to understand and utilize the power of ChatGPT. With its comprehensive understanding of ChatGPT and its potential to transform the way we work and learn, this book is sure to be a valuable resource. So why wait? Get your hands on a copy today and let OpenAI's ChatGPT work for you.

[Practical Guide to Azure Cognitive Services](#) Chris Seferlis, Christopher Nellis, Andy Roberts, 2023-05-12

Streamline your complex processes and optimize your organization's operational efficiency, cost effectiveness, and customer experience by unlocking the potential of Microsoft Azure Cognitive Services and OpenAI. Purchase of the print or Kindle book includes a free PDF eBook.

Key Features

- Minimize costs and maximize operations by automating mundane activities using AI tools.
- Ideate solutions using real-world examples for manufacturing process improvement with AI.
- Master TCO and ROI analysis for implementing AI solutions.
- Automating operations and ideating innovative manufacturing solutions with real-world examples.

Book Description

Azure Cognitive Services and OpenAI are a set of pre-built artificial intelligence (AI) solution APIs that can be leveraged from existing applications, allowing customers to take advantage of Microsoft's award-winning Vision, Speech, Text, Decision, and GPT-4 AI capabilities. With *Practical Guide to Azure Cognitive Services*, you'll work through industry-specific examples of implementations to get a head start in your production journey. You'll begin with an overview of the categorization of Azure Cognitive Services and the benefits of embracing AI solutions for practical business applications. After that, you'll explore the benefits of using Azure Cognitive Services to optimize efficiency and improve predictive capabilities. Then you'll learn how to leverage Vision capabilities for quality control, Form Recognizer to streamline supply chain nuances, language understanding to improve customer service, and Cognitive Search for next-generation knowledge mining solutions. By the end of this book, you'll be able to implement various Cognitive Services solutions that will help you enhance efficiency, reduce costs, and improve the customer experience at your organization. You'll also be well-equipped to automate mundane tasks by reaping the full potential of OpenAI. What you will learn:

- Master cost-effective deployment of Azure Cognitive Services.
- Develop proven solutions from an architecture and development standpoint.
- Understand how Cognitive Services are deployed and customized.
- Evaluate various uses of Cognitive Services with different mediums.
- Disseminate Azure costs for Cognitive Services workloads smoothly.
- Deploy next-generation Knowledge Mining solutions with Cognitive Search.
- Explore the current and future journey of OpenAI.
- Understand the value proposition of different AI projects.

Who this book is for: This book is for data scientists.

technology leaders and software engineers looking to implement Azure Cognitive Services with the help of sample use cases derived from success stories Experience with Python as well as an overall understanding of the Azure Portal with related services such as Azure Data Lake Storage and Azure Functions will help you make the most of this book

OpenAI Agents SDK for Beginners Hollis Denning, 2025-07-09 OpenAI Agents SDK for Beginners Build GPT 4o Assistants with Function Calling and Tool Orchestration The Ultimate Step by Step Guide to Building Smart Production Ready AI Agents with Python and OpenAI s Assistants SDK Ready to build real world AI assistants using GPT 4o This hands on guide is the most complete beginner friendly and production focused book available on OpenAI s official Agents SDK Whether you re an aspiring developer or an automation engineer you ll master everything from function calling and tool orchestration to deployment and optimization all with practical code real world projects and best practices What You ll Learn A Z Mastery Set up your environment with Python 3 12 Poetry and the OpenAI SDK Understand GPT 4o s multi modal capabilities and model selection Learn JSON Schema and function calling architecture from scratch Build assistants with tool chaining retries caching and memory Debug hallucinations invocation errors and SDK timeouts Create smart assistants like Calculator Bot deterministic math tool Weather Agent real time API integration Task Manager Bot multi turn planning persistence Enable streaming SSE WebSockets and concurrency Optimize cost with prompt compression caching and model tuning Deploy with FastAPI Docker GitHub Actions Vercel and Fly io Harden your agent with OAuth rate limiting PII redaction ISO GDPR readiness Who This Book Is For Python developers transitioning into AI development Engineers building LLM based workflows or copilots Data scientists automating tasks with GPT tools and APIs Freelancers educators and students entering the LLM ecosystem Anyone ready to build real secure and scalable AI assistants Why This Book Unlike high level tutorials or blog posts this book is a professional grade manual rooted in real SDK patterns and field proven techniques Whether you re building an internal tool deploying an AI SaaS agent or preparing for a LangChain AutoGen project this guide equips you with deep transferable skills Ready to build the future with AI Start now This is the guide the AI community has been waiting for

Openai Gerard Blokdyk, 2017-11-21 Which individuals teams or departments will be involved in OpenAI If substitutes have been appointed have they been briefed on the OpenAI goals and received regular communications as to the progress to date How can the value of OpenAI be defined What is our formula for success in OpenAI What is the total cost related to deploying OpenAI including any consulting or professional services Defining designing creating and implementing a process to solve a business challenge or meet a business objective is the most valuable role In EVERY company organization and department Unless you are talking a one time single use project within a business there should be a process Whether that process is managed and implemented by humans AI or a combination of the two it needs to be designed by someone with a complex enough perspective to ask the right questions Someone capable of asking the right questions and step back and say What are we really trying to accomplish here And is there a different way to look at it This Self Assessment empowers people to do just

that whether their title is entrepreneur manager consultant Vice President CxO etc they are the people who rule the future They are the person who asks the right questions to make OpenAI investments work better This OpenAI All Inclusive Self Assessment enables You to be that person All the tools you need to an in depth OpenAI Self Assessment Featuring 700 new and updated case based questions organized into seven core areas of process design this Self Assessment will help you identify areas in which OpenAI improvements can be made In using the questions you will be better able to diagnose OpenAI projects initiatives organizations businesses and processes using accepted diagnostic standards and practices implement evidence based best practice strategies aligned with overall goals integrate recent advances in OpenAI and process design strategies into practice according to best practice guidelines Using a Self Assessment tool known as the OpenAI Scorecard you will develop a clear picture of which OpenAI areas need attention Your purchase includes access details to the OpenAI self assessment dashboard download which gives you your dynamically prioritized projects ready tool and shows your organization exactly what to do next Your exclusive instant access details can be found in your book *Mastering OpenAI for Enterprise: Unlock the Power of OpenAI to Build Intelligent Applications for Businesses with GPT, DALL-E, RAG, and AI Agents* Sriram Subramanian,2025-03-11 Master OpenAI and Unlock the Future of AI Powered Innovation Key Features In depth exploration of OpenAI tools models and enterprise use cases Hands on projects with extensive code samples for practical learning Real world case studies with ethical AI insights and best practices Book DescriptionOpenAI is transforming industries with cutting edge AI models redefining how businesses operate innovate and compete Mastering OpenAI for Enterprise is your definitive guide to harnessing the power of OpenAI s groundbreaking technologies including GPT models DALL E and more Designed for AI engineers developers and business leaders this book offers an in depth understanding of OpenAI s tools and their real world applications in enterprise settings This hands on guide provides a structured learning path featuring practical code samples step by step implementations and industry case studies that bridge theory with practice Whether you re building intelligent chatbots leveraging AI for automation or exploring generative AI for creative solutions this book equips you with the knowledge and skills to seamlessly integrate OpenAI into your workflows Ethical AI development and responsible implementation are also key themes ensuring that innovation is balanced with accountability As AI continues to evolve at an unprecedented pace mastering OpenAI is no longer optional it s essential The future belongs to those who can effectively leverage these technologies Don t get left behind equip yourself with the expertise needed to stay ahead in the AI revolution What you will learn Gain expertise in OpenAI s models APIs and enterprise applications Build intelligent chatbots and virtual assistants using ChatGPT Implement ethical AI practices for responsible and fair deployment Optimize and deploy OpenAI models for scalable business solutions Analyze real world case studies to drive AI powered innovation Leverage generative AI to automate enhance and transform workflows **Openai** Gerardus Blokdyk,2018-01-13 Which individuals teams or departments will be involved in OpenAI If substitutes have been appointed have they been briefed

on the OpenAI goals and received regular communications as to the progress to date How can the value of OpenAI be defined What is our formula for success in OpenAI What is the total cost related to deploying OpenAI including any consulting or professional services Defining designing creating and implementing a process to solve a business challenge or meet a business objective is the most valuable role In EVERY company organization and department Unless you are talking a one time single use project within a business there should be a process Whether that process is managed and implemented by humans AI or a combination of the two it needs to be designed by someone with a complex enough perspective to ask the right questions Someone capable of asking the right questions and step back and say What are we really trying to accomplish here And is there a different way to look at it This Self Assessment empowers people to do just that whether their title is entrepreneur manager consultant Vice President CxO etc they are the people who rule the future They are the person who asks the right questions to make OpenAI investments work better This OpenAI All Inclusive Self Assessment enables You to be that person All the tools you need to an in depth OpenAI Self Assessment Featuring 700 new and updated case based questions organized into seven core areas of process design this Self Assessment will help you identify areas in which OpenAI improvements can be made In using the questions you will be better able to diagnose OpenAI projects initiatives organizations businesses and processes using accepted diagnostic standards and practices implement evidence based best practice strategies aligned with overall goals integrate recent advances in OpenAI and process design strategies into practice according to best practice guidelines Using a Self Assessment tool known as the OpenAI Scorecard you will develop a clear picture of which OpenAI areas need attention Your purchase includes access details to the OpenAI self assessment dashboard download which gives you your dynamically prioritized projects ready tool and shows your organization exactly what to do next Your exclusive instant access details can be found in your book [Exploring GPT-3](#) Steve Tingiris,Bret Kinsella,2021-08-27 Get started with GPT 3 and the OpenAI API for natural language processing using JavaScript and Python Key FeaturesUnderstand the power of potential GPT 3 language models and the risks involvedExplore core GPT 3 use cases such as text generation classification and semantic search using engaging examplesPlan and prepare a GPT 3 application for the OpenAI review process required for publishing a live applicationBook Description Generative Pre trained Transformer 3 GPT 3 is a highly advanced language model from OpenAI that can generate written text that is virtually indistinguishable from text written by humans Whether you have a technical or non technical background this book will help you understand and start working with GPT 3 and the OpenAI API If you want to get hands on with leveraging artificial intelligence for natural language processing NLP tasks this easy to follow book will help you get started Beginning with a high level introduction to NLP and GPT 3 the book takes you through practical examples that show how to leverage the OpenAI API and GPT 3 for text generation classification and semantic search You ll explore the capabilities of the OpenAI API and GPT 3 and find out which NLP use cases GPT 3 is best suited for You ll also learn how to use the API and optimize requests for the best

possible results With examples focusing on the OpenAI Playground and easy to follow JavaScript and Python code samples the book illustrates the possible applications of GPT 3 in production By the end of this book you ll understand the best use cases for GPT 3 and how to integrate the OpenAI API in your applications for a wide array of NLP tasks What you will learn Understand what GPT 3 is and how it can be used for various NLP tasks Get a high level introduction to GPT 3 and the OpenAI API Implement JavaScript and Python code examples that call the OpenAI API Structure GPT 3 prompts and options to get the best possible results Select the right GPT 3 engine or model to optimize for speed and cost efficiency Find out which use cases would not be suitable for GPT 3 Create a GPT 3 powered knowledge base application that follows OpenAI guidelines Who this book is for Exploring GPT 3 is for anyone interested in natural language processing or learning GPT 3 with or without a technical background Developers product managers entrepreneurs and hobbyists looking to get to grips with NLP AI and GPT 3 will find this book useful Basic computer skills are all you need to get the most out of this book

The OpenAI API Project Handbook Tony Lakeman, 2025-11-05 The OpenAI API Project Handbook is a practical project based guide for developers who want to go beyond simple demos and build real working AI applications using OpenAI s APIs Inside you ll find step by step projects that show how to engineer intelligent systems with GPT 4 Whisper and DALL E covering everything from conversational chatbots and copywriting assistants to document analyzers workflow agents and multimodal applications Across fifteen complete builds you ll learn how to design code and deploy production ready AI systems using Python and LangChain Each project is written in clear modern Python with fully explained examples that demonstrate how to connect OpenAI s APIs to real data sources integrate structured memory manage retrieval with vector databases and control model behavior through prompt engineering You ll explore a wide range of real world use cases such as chatbots with persistent context voice transcription and summarization with Whisper customer support assistants intelligent document Q A systems and full stack GPT web apps deployed with FastAPI and Docker Along the way you ll master essential skills in API orchestration token management cost optimization and secure key handling This handbook is designed to help you learn by building Early chapters focus on foundational OpenAI API workflows and Python integration while later projects introduce advanced LangChain concepts including retrieval augmented generation RAG agent collaboration and multimodal reasoning Every example is runnable out of the box and adaptable to your own applications Whether you re a backend engineer data scientist or independent developer looking to create powerful AI products The OpenAI API Project Handbook provides the practical blueprints you need By the end you ll have built a complete portfolio of AI driven systems and gained the engineering mindset to design test and deploy your own intelligent applications with confidence [Azure OpenAI Service for Cloud Native Applications](#) Adrián González Sánchez, 2024-06-27 Get the details examples and best practices you need to build generative AI applications services and solutions using the power of Azure OpenAI Service With this comprehensive guide Microsoft AI specialist Adri n Gonz lez S nchez examines the integration and

utilization of Azure OpenAI Service using powerful generative AI models such as GPT 4 and GPT 4o within the Microsoft Azure cloud computing platform To guide you through the technical details of using Azure OpenAI Service this book shows you how to set up the necessary Azure resources prepare end to end architectures work with APIs manage costs and usage handle data privacy and security and optimize performance You ll learn various use cases where Azure OpenAI Service models can be applied and get valuable insights from some of the most relevant AI and cloud experts Ideal for software and cloud developers product managers architects and engineers as well as cloud enabled data scientists this book will help you Learn how to implement cloud native applications with Azure OpenAI Service Deploy customize and integrate Azure OpenAI Service with your applications Customize large language models and orchestrate knowledge with company owned data Use advanced roadmaps to plan your generative AI project Estimate cost and plan generative AI implementations for adopter companies

Azure OpenAI Service for Cloud Native Applications Adrián González Sánchez, 2024-06-27 Get the details examples and best practices you need to build generative AI applications services and solutions using the power of Azure OpenAI Service With this comprehensive guide Microsoft AI specialist Adri n Gonz lez S nchez examines the integration and utilization of Azure OpenAI Service using powerful generative AI models such as GPT 4 and GPT 4o within the Microsoft Azure cloud computing platform To guide you through the technical details of using Azure OpenAI Service this book shows you how to set up the necessary Azure resources prepare end to end architectures work with APIs manage costs and usage handle data privacy and security and optimize performance You ll learn various use cases where Azure OpenAI Service models can be applied and get valuable insights from some of the most relevant AI and cloud experts Ideal for software and cloud developers product managers architects and engineers as well as cloud enabled data scientists this book will help you Learn how to implement cloud native applications with Azure OpenAI Service Deploy customize and integrate Azure OpenAI Service with your applications Customize large language models and orchestrate knowledge with company owned data Use advanced roadmaps to plan your generative AI project Estimate cost and plan generative AI implementations for adopter companies

OpenAI's O1 Model Carl W Pratt, 2024-09-14 Are you ready to dive into the future of artificial intelligence In OpenAI s o1 Model Breaking Through Agentic Workflows and Human Like Reasoning you ll embark on an electrifying journey into the cutting edge technology that is reshaping how we think about AI This isn t just another AI upgrade it s a revolution OpenAI s o1 model is here to change everything from how we interact with machines to how we solve problems in coding physics and beyond Have you ever wondered what it would be like to have an AI that thinks like a human adapts to your needs and handles even the most complex tasks with ease This book pulls back the curtain on OpenAI s most advanced model yet revealing how o1 is not only redefining AI workflows but also simplifying them for everyday use Whether you re a tech enthusiast a professional seeking the latest in AI advancements or someone who simply wants to understand how the future is being shaped this book is for you Why should you read this book Because the o1 model represents a monumental

shift in AI technology It moves beyond basic prompt based systems to autonomous reasoning and goal first thinking This book will show you how o1 is leading the charge in AI research breaking down its remarkable features and real world applications in a way that s engaging and easy to understand From coding breakthroughs to creative tasks o1 is setting a new standard and you ll see why this matters to you and your future What will you discover inside You ll learn how o1 s agentic workflows make complex tasks simple how its human like reasoning is pushing the boundaries of what AI can achieve and why its competitive pricing is a game changer You ll also uncover how o1 is outperforming its rivals and making AI accessible for everyone from small businesses to large enterprises This is the inside story of how OpenAI is shaping the future and it s a future you don t want to miss When is the right time to explore this Now AI is evolving rapidly and understanding models like o1 will give you a front row seat to the technology that s driving the next era of innovation If you re passionate about staying ahead of the curve learning about the tools that will soon be essential in every industry and seeing how AI can enhance your work and life this book is your guide Who needs to read this book Whether you re an AI researcher a tech entrepreneur a developer or someone simply curious about the future of technology this book is for you If you want to understand how AI is moving from a tool we use to a partner we collaborate with then OpenAI s o1 Model is a must read The future of AI is unfolding before your eyes don t get left behind Get your copy now and take the first step toward understanding the AI revolution that s just getting started OpenAI s o1 model is more than technology it s the key to unlocking a future where machines don t just work for us they think with us Discover Learn Lead Be part of the AI revolution today

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Table of Contents Openai Price Tutorial

1. Understanding the eBook Openai Price Tutorial
 - The Rise of Digital Reading Openai Price Tutorial
 - Advantages of eBooks Over Traditional Books
2. Identifying Openai Price Tutorial
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Openai Price Tutorial
 - User-Friendly Interface
4. Exploring eBook Recommendations from Openai Price Tutorial
 - Personalized Recommendations
 - Openai Price Tutorial User Reviews and Ratings
 - Openai Price Tutorial and Bestseller Lists
5. Accessing Openai Price Tutorial Free and Paid eBooks

- Openai Price Tutorial Public Domain eBooks
- Openai Price Tutorial eBook Subscription Services
- Openai Price Tutorial Budget-Friendly Options
- 6. Navigating Openai Price Tutorial eBook Formats
 - ePub, PDF, MOBI, and More
 - Openai Price Tutorial Compatibility with Devices
 - Openai Price Tutorial Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Openai Price Tutorial
 - Highlighting and Note-Taking Openai Price Tutorial
 - Interactive Elements Openai Price Tutorial
- 8. Staying Engaged with Openai Price Tutorial
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Openai Price Tutorial
- 9. Balancing eBooks and Physical Books Openai Price Tutorial
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Openai Price Tutorial
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Openai Price Tutorial
 - Setting Reading Goals Openai Price Tutorial
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Openai Price Tutorial
 - Fact-Checking eBook Content of Openai Price Tutorial
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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