

# 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)



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**M Mark**



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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 Description Supercharge 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

**Data Science Solutions on Azure** Julian Soh, Priyanshi Singh, 2024-11-18 This revamped and updated book focuses on the latest in AI technology Generative AI It builds on the first edition by moving away from traditional data science into the area of applied AI using the latest breakthroughs in Generative AI Based on real world projects this edition takes a deep look into new concepts and approaches such as Prompt Engineering testing and grounding of Large Language Models fine tuning and implementing new solution architectures such as Retrieval Augmented Generation RAG You will learn about new embedded AI technologies in Search such as Semantic and Vector Search Written with a view on how to implement Generative AI in software this book

contains examples and sample code In addition to traditional Data Science experimentation in Azure Machine Learning AML that was covered in the first edition the authors cover new tools such as Azure AI Studio specifically for testing and experimentation with Generative AI models What's New in this Book Provides new concepts tools and technologies such as Large and Small Language Models Semantic Kernel and Automatic Function Calling Takes a deeper dive into using Azure AI Studio for RAG and Prompt Engineering design Includes new and updated case studies for Azure OpenAI Teaches about Copilots plugins and agents What You'll Learn Get up to date on the important technical aspects of Large Language Models based on Azure OpenAI as the reference platform Know about the different types of models GPT3.5 Turbo GPT4 GPT4o Codex DALL-E and Small Language Models such as Phi 3 Develop new skills such as Prompt Engineering and fine tuning of Large Small Language Models Understand and implement new architectures such as RAG and Automatic Function Calling Understand approaches for implementing Generative AI using LangChain and Semantic Kernel See how real world projects help you identify great candidates for Applied AI projects including Large Small Language Models Who This Book Is For Software engineers and architects looking to deploy end-to-end Generative AI solutions on Azure with the latest tools and techniques

**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

*Reimagine Pricing* Jan Y. Yang, 2025-06-11 This book highlights the transformative potential of AI-enabled pricing showing how it empowers businesses to unlock revenue optimize customer experiences and gain a competitive edge By combining cutting-edge AI technologies with actionable strategies it offers a comprehensive roadmap for organizations looking to move from reactive manual pricing processes to proactive data-driven systems that predict adapt and create value in real-time Focused on practical applications the book bridges the gap between technological innovation and real-world implementation It features a unique blend of strategic insights technical examples including Python code and AI workflows and case studies from industries such as retail travel and manufacturing These examples demonstrate how companies have increased margins reduced churn and driven customer loyalty by leveraging AI It also explores fast-evolving trends like autonomous systems blockchain transparency and ecosystem-driven pricing making it

essential reading for professionals eager to future proof their pricing strategies A key contribution of the book is its focus on the human element of AI adoption It addresses challenges like resistance to change ethical considerations in pricing fairness and building trust with both internal teams and customers By reframing AI as an enabler rather than a replacement the book equips pricing professionals to transition from tactical roles to strategic leadership fostering collaboration between human intuition and machine intelligence The book raises provocative questions How can businesses harness AI without compromising ethics or transparency What skills will pricing teams need to thrive in an AI driven future And how can organizations align AI pricing with broader strategic goals It answers these questions by offering clear actionable solutions and a vision for integrating AI into the heart of business operations transforming pricing from a functional necessity into a strategic differentiator Designed for business leaders pricing experts and AI enthusiasts this book is not just a guide it s a call to action to embrace the future of AI enabled pricing with confidence creativity and purpose

**Quick Start Guide to Large Language Models** Sinan Ozdemir, 2023-09-20 The Practical Step by Step Guide to Using LLMs at Scale in Projects and Products Large Language Models LLMs like ChatGPT are demonstrating breathtaking capabilities but their size and complexity have deterred many practitioners from applying them In Quick Start Guide to Large Language Models 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 hands on exercises and more Along the way he shares insights into LLMs inner workings to help you optimize model choice data formats parameters and performance You ll find even more resources on the companion website including sample datasets and code for working with open and closed source LLMs such as those from OpenAI GPT 4 and ChatGPT Google BERT T5 and Bard EleutherAI GPT J and GPT Neo 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 retrieval augmented generation Master advanced prompt engineering techniques like output structuring chain of thought and semantic few shot prompting Customize LLM embeddings to build a complete recommendation engine from scratch with user data Construct and fine tune multimodal Transformer architectures using opensource LLMs Align LLMs using Reinforcement Learning from Human and AI Feedback RLHF RLAIIF Deploy prompts and custom fine tuned LLMs to the cloud with scalability and evaluation pipelines in mind By balancing the potential of both open and closed source models Quick Start Guide to Large Language Models stands as a comprehensive guide to understanding and using LLMs bridging the gap between theoretical concepts and practical application Giada Pistilli Principal Ethicist at HuggingFace 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

**Introduction to Generative AI, Second Edition** Numa Dhamani,2026-01-13 Get up to speed quickly with generative AI AI tools like ChatGPT and Gemini automated coding tools like Cursor and Copilot and countless LLM powered agents have become a part of daily life They ve also spawned a storm of misinformation hype and doomsaying that makes it tough to understand exactly what Generative AI actually is and what it can really do Introduction to Generative AI Second Edition delivers a clearly written survey of generative AI fundamentals along with the techniques and strategies you need to use AI safely and effectively In this easy to read introduction you ll learn How large language models LLMs work How to apply AI across personal and professional work The social legal and policy landscape around generative AI Emerging trends like reasoning models and vibe coding Introduction to Generative AI Second Edition guides you from your first eye opening interaction with tools like ChatGPT to how AI tools can transform your personal and professional life safely and responsibly This second edition has been completely revised to reflect the latest developments in the field from the latest innovations in prompt engineering and AI agents to fresh coverage of multimodal training reasoning models no code tools retrieval augmented generation RAG and more About the book Introduction to Generative AI Second Edition is an up to date guide to the capabilities risks and limitations of tools like ChatGPT Gemini and Claude This easy to follow guide moves quickly through the basics giving you the skills and understanding to use AI with confidence Along the way you ll explore how AI is impacting even established industries with an expert level look at global investment in AI AI education policy AI s economic impact and the ongoing legal and ethical issues of AI usage About the reader For anyone interested in generative AI No technical experience required About the author Numa Dhamani is a natural language processing expert working at the intersection of technology and society Maggie Engler is an engineer and researcher currently working on safety for large language models

**Build AI-Enhanced Web Apps** Theo Despoudis,2026-03-17 This book shows you step by step and example by example how to build sites and applications that take advantage of large language models LLMs like GPT Claude and Llama Written especially for web developers comfortable with React or Next js this book introduces the tools and techniques you need to add sophisticated AI features like Retrieval Augmented Generation RAG document summarization chatbots and more to your web based projects It guides you through AI development using only JavaScript and other common web dev skills no Python or Machine Learning experience required You ll learn by working with full scale AI projects that solve actual business problems You ll soon be delivering user friendly efficient interfaces that make the absolute best use of AI tech In Build AI Enhanced Web Apps you ll learn how to Integrate AI models into React and Next js applications Implement streaming responses and real time AI interactions Manage conversation history and context in chat applications Implement LangChain js for complex AI workflows and reasoning Build a web application for summarizing documents using LangChain js Utilize Retrieval Augmented

Generation RAG systems for knowledge management Develop an AI powered interview preparation system with voice feedback About the technology The users have spoken Agents personalized responses and other LLM powered features are required in modern web applications Build AI Enhanced Web Apps presents the end to end architecture of AI web apps including UI backend infrastructure data processing API integration deployment and scaling with examples and language perfect for professional web developers About the book This accessible book shows you how to ship real AI features not just toy demos using a JavaScript stack you already know React for UI Next js for backend integration and the Vercel AI SDK to connect to LLMs like Gemini and GPT In it you ll acquire the skills you need to complete two portfolio ready projects a voice based interview assistant and a RAG powered corporate knowledge system You ll also learn how to design workflows that balance latency cost and UX and implement responsible guardrails for security quality control hallucinations and bias What s inside Build AI features using a professional stack Ship production ready features Learn from concrete projects About the reader For web developers familiar with JavaScript and React About the author Theo Despoudis is a Senior Engineer at WP Engine specializing in AI powered search and headless WordPress He is an expert in integrating LLMs RAG and Vercel AI SDK into React and Next js apps Table of Contents Part 1 1 Using generative AI in web apps 2 Building your first generative AI web application 3 Connecting AI models with the Vercel AI SDK 4 Managing conversation and state in your application Part 2 5 Prompt engineering in web applications 6 Building AI workflows with LangChain js 7 Document summarization and RAG with LangChain js 8 Testing and debugging techniques 9 Deployment and security Part 3 10 Building an AI interview assistant Project walk through 11 Building an AI RAG agent Project walk through Part 4 12 Integrating web apps with the Model Context Protocol A Running the examples Cincinnati Price-current ,1904 **China's 90% Model** Ram Charan,2026-03-17 TWO FORTUNE 500 CEOs AGREED TO CO AUTHOR THIS BOOK Both withdrew after board discussions Dozens of executives contributed anonymously fearing retaliation This book reveals what they cannot say publicly China s economic model is not about competition It s about destroying American industrial capacity and the US led global order America is losing a war it barely knows it s fighting At the heart of China s strategy is the 90% Model build capacity to meet 90% of global demand sell at below marginal cost with 20% deliberately depreciated currency flood markets with subsidized exports Destroy competitors Ten American industries destroyed including Furniture Textiles Basic chemicals Pharmaceutical ingredients Solar panels The next ten targeted include New materials Bio pharma Artificial intelligence Aerospace High tech ships China can shut down your industry at will Within weeks The assault is deliberate But it s not too late This book shows the path to fight back and win Annual Report United States. Commission of Labor,1900 Canada Lumberman and Woodworker ,1911 **Oil, Paint and Drug Reporter and New York Druggists' Price Current** ,1941 **Tax Court Reported Decisions** United States. Tax Court,1983 American Florist ,1903 Southern Reporter ,1918 Includes the decisions of the Supreme Courts of Alabama Florida Louisiana and Mississippi the Appellate Courts of Alabama and Sept

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its global impact Strategies for navigating exponential growth and fierce international competition Exclusive insights into the  
interconnected tech ecosystems of the U S China Japan South Korea and Europe Whether you re a tech enthusiast a policy  
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## **Table of Contents Openai Price**

1. Understanding the eBook Openai Price
  - The Rise of Digital Reading Openai Price
  - Advantages of eBooks Over Traditional Books
2. Identifying Openai Price
  - 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
  - User-Friendly Interface
4. Exploring eBook Recommendations from Openai Price
  - Personalized Recommendations
  - Openai Price User Reviews and Ratings
  - Openai Price and Bestseller Lists
5. Accessing Openai Price Free and Paid eBooks
  - Openai Price Public Domain eBooks
  - Openai Price eBook Subscription Services
  - Openai Price Budget-Friendly Options

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