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

Julian Soh,Priyanshi Singh

Openai Price:

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 *Azure for Developers* Kamil Mrzygłód,2025-07-30 Advance your development career by mastering Microsoft Azure s latest tools and technologies to enhance existing applications and build powerful cloud native solutions Key Features Build and deploy Azure apps with web serverless and container based architectures Create end to end cloud solutions on Azure by integrating AI services monitoring tools and DevOps Upskill confidently with practical insights and real world development practices Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionSupercharge your development career by mastering Azure s evolving GenAI container and serverless capabilities to build scalable secure applications with confidence This third edition of Azure for Developers transforms complex cloud concepts into practical skills guiding you through the design deployment and management of cloud native solutions while eliminating infrastructure headaches Fully updated with Azure s latest features this hands on guide helps you automate DevOps pipelines with GitHub Actions deploy microservices using containers and integrate generative AI via Azure OpenAI to modernize your development workflows You will learn how to set up your environment streamline app deployment and implement robust service integrations using real world best practices The final section is a game changer for developers who want to stay ahead of the curve It shows you how to leverage Azure s AI and machine learning services to automate tasks fine tune models and build intelligent assistants and next generation workflows By the end you will have the confidence and capabilities to deliver production grade cloud solutions that meet real world demands and position yourself at the forefront of modern cloud development What you will learn Integrate data solutions like Azure Storage and managed SQL databases into your applications Embed monitoring into your application using Application Insights SDK Develop serverless solutions with Azure Functions and Durable Functions Automate CI CD workflows with GitHub Actions and Azure integration Build and manage containers using Azure Container Apps Azure Container Registry ACR and App Service Design powerful workflows with both low code and full code approaches Enhance applications with AI and machine learning components Who

this book is for This book is for cloud developers and engineers building applications with Microsoft Azure as well as those looking to begin a career in Azure development While a basic understanding of programming concepts is recommended the book covers both basic and advanced ideas and solutions making it valuable for beginners and experienced developers looking to enhance their skills   **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   **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   **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 ofthought 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 RLAIF 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

Annual Report United States. Commission of Labor,1900 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 **Tax Court Reported Decisions** United States. Tax Court,1983 **Oil, Paint and Drug Reporter and New York Druggists' Price Current** ,1941 **American Florist** ,1903 **Canada Lumberman and Woodworker** ,1911 **The Literary Digest** ,1914 SEMI Country: Trump Storm, and the Island of No Significance Colley

Hwang,2025-03-10 Discover Taiwan s Silicon Legacy A Tale of Resilience Innovation and Global Impact From the founder of DIGITIMES Colley Hwang comes an illuminating exploration into Taiwan s extraordinary journey as a global semiconductor powerhouse SEMI Country Trump Storm and the Island of No Significance unveils six decades of triumphs challenges and transformations that have placed this island of no significance at the heart of the world s most pivotal industry Huang an industry visionary and international observer masterfully blends historical insights with forward looking strategies Drawing on first hand experiences with global leaders and policymakers the book delves into Taiwan s pivotal role in shaping the tech landscape From the foundations of its semiconductor industry to its modern day implications amidst geopolitical tension and technological breakthroughs Huang provides an unparalleled narrative In this compelling book you ll find A deep dive into Taiwan s semiconductor revolution and 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 maker or a business leader SEMI Country Trump Storm and the Island of No Significance offers invaluable lessons on resilience adaptability and the power of strategic foresight in an ever evolving technological era Embark on a journey that will change the way you see Taiwan and its indispensable role in our digital future   *Machine Learning Platform Engineering* Benjamin Tan Wei Hao,Shanoop Padmanabhan,Varun Mallya,2026-03-17 Delivering a successful machine learning project is hard This book makes it easier In it you ll design a reliable ML system from the ground up incorporating MLOps and DevOps along with a stack of proven infrastructure tools including Kubeflow MLFlow BentoML Evidently and Feast A properly designed machine learning system streamlines data workflows improves collaboration between data and operations teams and provides much needed structure for both training and deployment In this book you ll learn how to design and implement a machine learning system from the ground up You ll appreciate this instantly useful introduction to achieving the full benefits of automated ML infrastructure In Machine Learning Platform Engineering you ll learn how to Set up an MLOps platform Deploy machine learning models to production Build end to end data pipelines Effective monitoring and explainability About the technology AI and ML systems have a lot of moving parts from language libraries and application frameworks to workflow and deployment infrastructure to LLMs and other advanced models A well designed internal development platform IDP gives developers a defined set of tools and guidelines that accelerate the dev process improving consistency security and developer experience About the book Machine Learning Platform Engineering shows you how to build an effective IDP for ML and AI applications Each chapter illuminates a vital part of the ML workflow including setting up orchestration pipelines selecting models allocating resources for training inference and serving and more As you go you ll create a versatile modern platform using open source tools like Kubeflow MLFlow BentoML Evidently Feast and LangChain What s inside Set up an end to end MLOps LLMOps platform Deploy ML and AI models to production Effective monitoring evaluation and explainability About the reader For data scientists or

software engineers Examples in Python About the author Benjamin Tan Wei Hao leads a team of ML engineers and data scientists at DKatalis Shanoop Padmanabhan is a software engineering manager at Continental Automotive Varun Mallya is a senior ML engineer at DKatalis Table of Contents **The Billboard** ,1926 *Southern Reporter* ,1918 Includes the decisions of the Supreme Courts of Alabama Florida Louisiana and Mississippi the Appellate Courts of Alabama and Sept 1928 Jan 1929 Jan Mar 1941 the Courts of Appeal of Louisiana **Gems from the Best Authors, Grave and Gay** ,1887

Openai Price Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Openai Price**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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web may 3 2019   lanthanides definition the lanthanides are generally considered to be elements with atomic numbers 58 71 lanthanum to lutetium the lanthanide series is the group of elements in which the 4f sublevel is being filled all of these elements are metals specifically transition metals they share several common properties

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web five of the elements la ce pr nd eu are very reactive and when exposed to air react with oxygen to form an oxide coating that tarnishes the surface for this reason these metals are stored under mineral oil the remainder of the lanthanides are not as reactive and some gd lu retain their silvery metallic appearance for a long time

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web to separate the lanthanides from other elements occurring with them they are chemically combined with specific substances to form lanthanide compounds with low solubility oxalates and fluorides for example a process known as ion exchange is then used to separate the lanthanides from each other in this process a solution of the

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