

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)



World Series Openai Price

M Woodhall



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Advances on P2P, Parallel, Grid, Cloud and Internet Computing Leonard Barolli, 2023-10-28 P2P Grid Cloud and Internet computing technologies have been very fast established as breakthrough paradigms for solving complex problems by enabling aggregation and sharing of an increasing variety of distributed computational resources at large scale Grid Computing originated as a paradigm for high performance computing as an alternative to expensive supercomputers through different forms of large scale distributed computing P2P Computing emerged as a new paradigm after client server and web based computing and has shown useful to the development of social networking Business to Business B2B Business to Consumer B2C Business to Government B2G Business to Employee B2E and so on Cloud Computing has been defined as a computing paradigm where the boundaries of computing are determined by economic rationale rather than technical limits Cloud computing has fast become the computing paradigm with applicability and adoption in all application domains and providing utility computing at large scale Finally Internet Computing is the basis of any large scale distributed computing paradigms it has very fast developed into a vast area of flourishing field with enormous impact on today s information societies serving thus as a universal platform comprising a large variety of computing forms such as Grid P2P Cloud and Mobile computing The aim of the book is to provide latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to P2P Grid Cloud and Internet Computing as well as to reveal synergies among such large scale computing paradigms

Developing Apps with GPT-4 and ChatGPT Olivier Caelen, Marie-Alice Blete, 2024-07-10 This book provides an ideal 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 GPT 3 5 models and explain how they work You ll also get a step by step guide for developing applications using the OpenAI Python library including text generation Q A and smart assistants 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 Fundamentals and benefits of GPT 4 and GPT 3 5 models including the main features and how they work How to integrate these models into Python based applications leveraging natural language processing capabilities and overcoming specific LLM related challenges Examples of applications demonstrating the OpenAI API in Python for tasks including text generation question answering content summarization classification and more Advanced LLM topics such as prompt engineering fine tuning models for specific tasks RAG plug ins LangChain LlamaIndex GPTs and assistants Olivier Caelen is a machine learning researcher at Worldline and teaches machine learning courses at the University of Brussels Marie Alice Blete a software architect and data engineer in Worldline s R D department is interested in performance and latency issues

associated with AI solutions **Streamlit for Data Science** Tyler Richards, 2023-09-29 An easy to follow and comprehensive guide to creating data apps with Streamlit including how to guides for working with cloud data warehouses like Snowflake using pretrained Hugging Face and OpenAI models and creating apps for job interviews Key Features Create machine learning apps with random forest Hugging Face and GPT 3 5 turbo models Gain an insight into how experts harness Streamlit with in depth interviews with Streamlit power users Discover the full range of Streamlit s capabilities via hands on exercises to effortlessly create and deploy well designed apps Book Description If you work with data in Python and are looking to create data apps that showcase ML models and make beautiful interactive visualizations then this is the ideal book for you Streamlit for Data Science Second Edition shows you how to create and deploy data apps quickly all within Python This helps you create prototypes in hours instead of days Written by a prolific Streamlit user and senior data scientist at Snowflake this fully updated second edition builds on the practical nature of the previous edition with exciting updates including connecting Streamlit to data warehouses like Snowflake integrating Hugging Face and OpenAI models into your apps and connecting and building apps on top of Streamlit databases Plus there is a totally updated code repository on GitHub to help you practice your newfound skills You ll start your journey with the fundamentals of Streamlit and gradually build on this foundation by working with machine learning models and producing high quality interactive apps The practical examples of both personal data projects and work related data focused web applications will help you get to grips with more challenging topics such as Streamlit Components beautifying your apps and quick deployment By the end of this book you ll be able to create dynamic web apps in Streamlit quickly and effortlessly What you will learn Set up your first development environment and create a basic Streamlit app from scratch Create dynamic visualizations using built in and imported Python libraries Discover strategies for creating and deploying machine learning models in Streamlit Deploy Streamlit apps with Streamlit Community Cloud Hugging Face Spaces and Heroku Integrate Streamlit with Hugging Face OpenAI and Snowflake Beautify Streamlit apps using themes and components Implement best practices for prototyping your data science work with Streamlit Who this book is for This book is for data scientists and machine learning enthusiasts who want to get started with creating data apps in Streamlit It is terrific for junior data scientists looking to gain some valuable new skills in a specific and actionable fashion and is also a great resource for senior data scientists looking for a comprehensive overview of the library and how people use it Prior knowledge of Python programming is a must and you ll get the most out of this book if you ve used Python libraries like Pandas and NumPy in the past *Microprediction* Peter Cotton, 2022-11-08 How a web scale network of autonomous micromanagers can challenge the AI revolution and combat the high cost of quantitative business optimization The artificial intelligence AI revolution is leaving behind small businesses and organizations that cannot afford in house teams of data scientists In *Microprediction* Peter Cotton examines the repeated quantitative tasks that drive business optimization from the perspectives of economics statistics decision making under uncertainty and privacy concerns

He asks what things currently described as AI are not microprediction whether microprediction is an individual or collective activity and how we can produce and distribute high quality microprediction at low cost The world is missing a public utility he concludes while companies are missing an important strategic approach that would enable them to benefit and also give back In an engaging colloquial style Cotton argues that market inspired superminds are likely to be very effective compared with other orchestration mechanisms in the domain of microprediction He presents an ambitious yet practical alternative to the expensive artisan data science that currently drains money from firms Challenging the machine learning revolution and exposing a contradiction at its heart he offers engineers a new liberty no longer reliant on quantitative experts they are free to create intelligent applications using general purpose application programming interfaces APIs and libraries He describes work underway to encourage this approach one that he says might someday prove to be as valuable to businesses and society at large as the internet

Silicon Empires Nick Srnicek, 2025-12-23 Since the emergence of ChatGPT generative AI has been heralded as a technology poised to revolutionize our world But beyond the hype and hyperbole who truly wields power over this transformative technology In *Silicon Empires* Nick Srnicek explores the geopolitical economy of artificial intelligence revealing how a handful of powerful corporations and states are engaged in a monumental struggle to control its future Srnicek moves beyond the headlines to lay bare the elaborate strategies that these silicon empires from tech giants to great powers are deploying to capture the immense value of AI This incisive analysis uncovers the deep seated tensions between corporate ambitions and national interests and the profound consequences of this new era of technological competition As the race for AI supremacy accelerates Srnicek compellingly demonstrates that the decisions being made in the boardrooms of Silicon Valley and the halls of government will shape the distribution of wealth and power on a global scale for decades to come

Feeding the Machine Callum Cant, James Muldoon, Mark Graham, 2024-08-06 For readers of Naomi Klein and Nicole Perlroth a myth dissolving expos of how artificial intelligence exploits human labor and a resounding argument for a more equitable digital future Silicon Valley has sold us the illusion that artificial intelligence is a frictionless technology that will bring wealth and prosperity to humanity But hidden beneath this smooth surface lies the grim reality of a precarious global workforce of millions laboring under often appalling conditions to make AI possible This book presents an urgent riveting investigation of the intricate network that maintains this exploitative system revealing the untold truth of AI Based on hundreds of interviews and thousands of hours of fieldwork over more than a decade *Feeding the Machine* describes the lives of the workers deliberately concealed from view and the power structures that determine their future It gives voice to the people whom AI exploits from accomplished writers and artists to the armies of data annotators content moderators and warehouse workers revealing how their dangerous low paid labor is connected to longer histories of gendered racialized and colonial exploitation AI is an extraction machine that feeds off humanity's collective effort and intelligence churning through ever larger datasets to power its algorithms This book is a call to arms that details what we

need to do to fight for a more just digital future *Mark Lane Express* ,1921 Wallaces Farmer ,1983 **Billboard Music Week** ,1930 **World Series Encyclopedia** Don Schiffer,1961 **The World Series Illustrated Almanac** Richard Whittingham,1984-01-01 *Official Score Card [of The] Global World Series* Global World Series,1955 The World Series Harold R. Paretchan,1968 *Home and World Series* HOME AND WORLD SERIES.,1908 The World Series Thomas G. Aylesworth,1988 *World series* ,19?? **329 World Series Life Hacks You'll Remember** Albert Gillespie,2015-03-06 Here it is World Series There has never been a World Series Guide like this It contains 329 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about World Series A quick look inside of some of the subjects covered 1990 World Series Radio and television coverage 1976 World Series Background 1948 World Series Game 1 1965 World Series Game 2 1995 World Series Game 5 1918 World Series Composite box 1982 World Series 1962 World Series Game 3 2005 World Series Game 2 1959 World Series Game 5 1952 World Series Game 6 1975 World Series Game 1 1980 World Series Game 1 1918 World Series Game 6 1949 World Series Game 2 1958 World Series Game 2 1976 World Series Game 3 Chicago White Sox 1959 World Series World Series of Poker Poker Hall of Fame 1966 World Series Dodgers 1986 World Series Game 1 1957 World Series MVP Lew Burdette s series statistics 1967 World Series Game 7 World Series of Poker Acquisition by Harrah s 1995 World Series Game 1 1960 World Series Game 6 Detroit Tigers 1945 World Series Champions 1953 World Series Game 4 1975 World Series Game 2 1976 World Series Composite box 1995 World Series Composite line score 1958 World Series Game 4 2010 World Series Game 1 1982 World Series Game 6 Jeff Conine Second World Series ring in Florida 1967 World Series Summary World Series of Poker Records 1959 World Series Game 1 1918 World Series Game 3 1995 World Series Background MLB Wild Card Combined wild card game division series LCS and World Series record as wild card winners and much more *World Series Fact Book* Major League Baseball (Organization). Public Relations Department,1997 **2014 World Series: American League** Major League Baseball,2014-11-04 2014 World Series Champions takes fans out to the ball game and right down to the field level action Published in conjunction with MLB and researched by their own in house team of knowledgeable baseball experts this commemorative keepsake offers fans not only a detailed game by game recap of Boston s run through the annual Fall Classic but also a history of the World Series With more than a 100 incredible photographs descriptive game analysis profiles of team members statistics and box scores this celebrates the highlights from the 2014 series World Series Official Program ,1987

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