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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<u>Building AI Applications with ChatGPT APIs</u> Martin Yanev,2023-09-21 Enhance your application development skills by building a ChatGPT clone code bug fixer quiz generator translation app email auto reply PowerPoint generator and more in just one read Key Features Become proficient in building AI applications with ChatGPT DALL E and Whisper Understand how to select the optimal ChatGPT model and fine tune it for your specific use case Monetize your applications by integrating the ChatGPT API with Stripe Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionCombining ChatGPT APIs with Python opens doors to building extraordinary AI applications By leveraging these APIs you can focus on the application logic and user experience while ChatGPT s robust NLP capabilities handle the intricacies of human like text understanding and generation This book is a guide for beginners to master the ChatGPT Whisper and DALL E APIs by building ten innovative AI projects These projects offer practical experience in integrating ChatGPT with frameworks and tools such as Flask Django Microsoft Office APIs and PyQt Throughout this book you ll get to grips with performing NLP tasks building a ChatGPT clone and creating an AI driven code bug fixing SaaS application You ll also cover speech recognition text to speech functionalities language translation and generation of email replies and PowerPoint presentations This book teaches you how to fine tune ChatGPT and generate AI art using DALL E APIs and then offers insights into selling your apps by integrating ChatGPT API with Stripe With practical examples available on GitHub the book gradually progresses from easy to advanced topics cultivating the expertise required to develop deploy and monetize your own groundbreaking applications by harnessing the full potential of ChatGPT APIs What you will learn Develop a solid foundation in using the ChatGPT API for natural language processing tasks Build deploy and capitalize on a variety of desktop and SaaS AI applications Seamlessly integrate ChatGPT with established frameworks such as Flask Django and Microsoft Office APIs Channel your creativity by integrating DALL E APIs to produce stunning AI generated art within your desktop applications Experience the power of Whisper API s speech recognition and text to speech features Discover techniques to optimize ChatGPT models through the process of fine tuning Who this book is for With best practices tips and tricks for building applications using the ChatGPT API this book is for programmers entrepreneurs and software enthusiasts Python developers interested in AI applications involving ChatGPT software developers who want to integrate AI technology and web developers looking to create AI powered web applications with ChatGPT will also find this book useful A fundamental understanding of Python programming and experience of working with APIs will help you make the most of this book *Developing Apps with GPT-4 and ChatGPT* Olivier Caelen,Marie-Alice Blete,2023-08-29 This minibook is a comprehensive guide for Python developers who want to learn how to build applications with large language models Authors Olivier Caelen and Marie Alice Blete cover the main features and benefits of GPT 4 and ChatGPT and explain how they work You ll also get a step by step guide for developing applications using the GPT 4 and ChatGPT Python library including text generation Q A and content

summarization tools Written in clear and concise language Developing Apps with GPT 4 and ChatGPT includes easy to follow examples to help you understand and apply the concepts to your projects Python code examples are available in a GitHub repository and the book includes a glossary of key terms Ready to harness the power of large language models in your applications This book is a must You ll learn The fundamentals and benefits of ChatGPT and GPT 4 and how they work How to integrate these models into Python based applications for NLP tasks How to develop applications using GPT 4 or ChatGPT APIs in Python for text generation question answering and content summarization among other tasks Advanced GPT topics including prompt engineering fine tuning models for specific tasks plug ins LangChain and more   **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   **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   Building AI Applications with Microsoft Semantic Kernel Lucas A. Meyer,2024-06-21 Unlock the power of GenAI by effortlessly linking your C and Python apps with cutting edge models orchestrating diverse AI services with finesse and crafting bespoke applications through immersive real world examples Key Features Link your C and Python applications with the latest AI models from OpenAI Combine and orchestrate different AI services such as text and image generators Create your own AI apps with real world use case examples that show you how to use basic generative AI create images process documents use a vector database Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionIn the fast paced world of AI developers are constantly seeking efficient ways to integrate AI capabilities into their apps Microsoft Semantic Kernel simplifies this process by using the GenAI features from Microsoft and OpenAI Written by Lucas A Meyer a Principal Research Scientist in Microsoft s AI for Good Lab this book helps you get hands on with Semantic Kernel It begins by introducing you to different generative AI services such as GPT 3 5 and GPT 4 demonstrating their integration with Semantic Kernel You ll then learn to craft prompt templates for reuse across various AI services and variables Next you ll learn how to add functionality to Semantic Kernel by creating your own plugins The second part of the book shows you how to combine multiple plugins to execute complex actions and how to let Semantic Kernel use its own AI to solve complex problems by calling plugins including the

ones made by you The book concludes by teaching you how to use vector databases to expand the memory of your AI services and how to help AI remember the context of earlier requests You ll also be guided through several real world examples of applications such as RAG and custom GPT agents By the end of this book you ll have gained the knowledge you need to start using Semantic Kernel to add AI capabilities to your applications What you will learn Write reusable AI prompts and connect to different AI providers Create new plugins that extend the capabilities of AI services Understand how to combine multiple plugins to execute complex actions Orchestrate multiple AI services to accomplish a task Leverage the powerful planner to automatically create appropriate AI calls Use vector databases as additional memory for your AI tasks Deploy your application to ChatGPT making it available to hundreds of millions of users Who this book is for This book is for beginner level to experienced NET or Python software developers who want to quickly incorporate the latest AI technologies into their applications without having to learn the details of every new AI service Product managers with some development experience will find this book helpful while creating proof of concept applications This book requires working knowledge of programming basics   **Large Language Models Projects** Pere Martra,2024-09-18 This book offers you a hands on experience using models from OpenAI and the Hugging Face library You will use various tools and work on small projects gradually applying the new knowledge you gain The book is divided into three parts Part one covers techniques and libraries Here you ll explore different techniques through small examples preparing to build projects in the next section You ll learn to use common libraries in the world of Large Language Models Topics and technologies covered include chatbots code generation OpenAI API Hugging Face vector databases LangChain fine tuning PEFT fine tuning soft prompt tuning LoRA QLoRA evaluating models and Direct Preference Optimization Part two focuses on projects You ll create projects understanding design decisions Each project may have more than one possible implementation as there is often not just one good solution You ll also explore LLMOps related topics Part three delves into enterprise solutions Large Language Models are not a standalone solution in large corporate environments they are one piece of the puzzle You ll explore how to structure solutions capable of transforming organizations with thousands of employees highlighting the main role that Large Language Models play in these new solutions This book equips you to confidently navigate and implement Large Language Models empowering you to tackle diverse challenges in the evolving landscape of language processing What You Will Learn Gain practical experience by working with models from OpenAI and the Hugging Face library Use essential libraries relevant to Large Language Models covering topics such as Chatbots Code Generation OpenAI API Hugging Face and Vector databases Create and implement projects using LLM while understanding the design decisions involved Understand the role of Large Language Models in larger corporate settings Who This Book Is For Data analysts data science Python developers and software professionals interested in learning the foundations of NLP LLMs and the processes of building modern LLM applications for various tasks   **Azure for Developers** Kamil Mrzygłód,2025-07-30 Advance your development career by

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traceable source documents RAG improves output accuracy and contextual relevance offering a dynamic approach to managing large volumes of information This AI book shows you how to build a RAG framework providing practical knowledge on vector stores chunking indexing and ranking You ll discover techniques to optimize your project s performance and better understand your data including using adaptive RAG and human feedback to refine retrieval accuracy balancing RAG with fine tuning implementing dynamic RAG to enhance real time decision making and visualizing complex data with knowledge graphs You ll be exposed to a hands on blend of frameworks like LlamaIndex and Deep Lake vector databases such as Pinecone and Chroma and models from Hugging Face and OpenAI By the end of this book you will have acquired the skills to implement intelligent solutions keeping you competitive in fields from production to customer service across any project What you will learn Scale RAG pipelines to handle large datasets efficiently Employ techniques that minimize hallucinations and ensure accurate responses Implement indexing techniques to improve AI accuracy with traceable and transparent outputs Customize and scale RAG driven generative AI systems across domains Find out how to use Deep Lake and Pinecone for efficient and fast data retrieval Control and build robust generative AI systems grounded in real world data Combine text and image data for richer more informative AI responses Who this book is for This book is ideal for data scientists AI engineers machine learning engineers and MLOps engineers If you are a solutions architect software developer product manager or project manager looking to enhance the decision making process of building RAG applications then you ll find this book useful   *The Future of Finance with ChatGPT and Power BI* James Bryant,Aloke Mukherjee,2023-12-29 Enhance decision making transform your market approach and find investment opportunities by exploring AI finance and data visualization with ChatGPT s analytics and Power BI s visuals Key Features Automate Power BI with ChatGPT for quick and competitive financial insights giving you a strategic edge Make better data driven decisions with practical examples of financial analysis and reporting Learn the step by step integration of ChatGPT financial analysis and Power BI for real world success Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionIn today s rapidly evolving economic landscape the combination of finance analytics and artificial intelligence AI heralds a new era of decision making Finance and data analytics along with AI can no longer be seen as separate disciplines and professionals have to be comfortable in both in order to be successful This book combines finance concepts visualizations through Power BI and the application of AI and ChatGPT to provide a more holistic perspective After a brief introduction to finance and Power BI you will begin with Tesla s data driven financial tactics before moving to John Deere s AgTech strides all through the lens of AI Salesforce s adaptation to the AI revolution offers profound insights while Moderna s navigation through the biotech frontier during the pandemic showcases the agility of AI focused companies Learn from Silicon Valley Bank s demise and prepare for CrowdStrike s defensive maneuvers against cyber threats With each chapter you ll gain mastery over new investing ideas Power BI tools and integrate ChatGPT into your workflows This book is an indispensable ally for anyone looking to thrive in

the financial sector By the end of this book you ll be able to transform your approach to investing and trading by blending AI driven analysis data visualization and real world applications What you will learn Dominate investing trading and reporting with ChatGPT s game changing insights Master Power BI for dynamic financial visuals custom dashboards and impactful charts Apply AI and ChatGPT for advanced finance analysis and natural language processing NLP in news analysis Tap into ChatGPT for powerful market sentiment analysis to seize investment opportunities Unleash your financial analysis potential with data modeling source connections and Power BI integration Understand the importance of data security and adopt best practices for using ChatGPT and Power BI Who this book is for This book is for students academics data analysts and AI enthusiasts eager to leverage ChatGPT for financial analysis and forecasting It s also suitable for investors traders financial pros business owners and entrepreneurs interested in analyzing financial data using Power BI To get started with this book understanding the fundamentals of finance investment trading and data analysis along with proficiency in tools like Power BI and Microsoft Excel is necessary While prior knowledge of AI and ChatGPT is beneficial it is not a prerequisite   **Cue** ,1951

Billboard Music Week ,1950-03   *Computer Buyer's Guide and Handbook* ,2000   *Textile World Journal* ,1921

The Billboard ,1930   *California Farmer* ,1971   **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

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