

OpenAI API Pricing Calculator

Calculate the cost of using the OpenAI API and other LLMs for your AI project with our simple and powerful free calculator.

Input Tokens

100

Output Tokens

500

API Calls

100

Openai Prices Tutorial

Patrick Vollmar

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 Prices Tutorial:

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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 Actueloop 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 [Azure OpenAI Essentials](#) Amit Mukherjee, Adithya Saladi, 2025-02-27 Build innovative scalable and ethical AI solutions by harnessing the full potential of generative AI with this exhaustive guide Key Features Explore the capabilities of Azure OpenAI's LLMs Craft end-to-end applications by utilizing the synergy of Azure OpenAI and Cognitive Services Design enterprise grade GenAI solutions with effective prompt engineering fine tuning and AI safety measures Purchase of the print or Kindle book includes a free PDF eBook Book Description Find out what makes Azure OpenAI a robust platform for building AI driven solutions that can transform how businesses operate Written by seasoned experts from Microsoft this book will guide you in understanding Azure OpenAI from fundamentals through to advanced concepts and best practices The book begins with an introduction to large language models LLMs and the Azure OpenAI Service detailing how to access use and optimize its models You'll learn how to design and implement AI driven solutions such as question answering systems contact center analytics and GPT powered search applications Additionally the chapters walk you through advanced concepts including embeddings fine tuning models prompt engineering and building custom AI applications using LangChain and Semantic Kernel You'll explore real world use cases such as QnA systems document summarizers and SQLGPT for database querying as well as gain insights into securing and operationalizing these solutions in enterprises By the end of this book you'll be ready to design develop and deploy scalable AI solutions ensuring business success through intelligent automation and data driven insights What you will learn Understand the concept of large language models and their capabilities Interact with different models in Azure OpenAI using APIs or web interfaces Use content filters and mitigations to prevent harmful content

generation Develop solutions with Azure OpenAI for content generation summarization semantic search NLU code and image generation and analysis Integrate Azure OpenAI with other Azure Cognitive services for enhanced functionality Apply best practices for data privacy security and prompt engineering with Azure OpenAI Who this book is for This book is for software developers data scientists AI engineers ML engineers system architects LLM engineers IT professionals product managers and business professionals who want to learn how to use Azure OpenAI to create innovative solutions with generative AI To fully benefit from this book you must have both an Azure subscription and Azure OpenAI access along with knowledge of Python

Hands-On Intelligent Agents with OpenAI Gym Praveen Palanisamy, 2018-07-31 Implement intelligent agents using PyTorch to solve classic AI problems play console games like Atari and perform tasks such as autonomous driving using the CARLA driving simulator Key Features Explore the OpenAI Gym toolkit and interface to use over 700 learning tasks Implement agents to solve simple to complex AI problems Study learning environments and discover how to create your own Book Description Many real world problems can be broken down into tasks that require a series of decisions to be made or actions to be taken The ability to solve such tasks without a machine being programmed requires a machine to be artificially intelligent and capable of learning to adapt This book is an easy to follow guide to implementing learning algorithms for machine software agents in order to solve discrete or continuous sequential decision making and control tasks Hands On Intelligent Agents with OpenAI Gym takes you through the process of building intelligent agent algorithms using deep reinforcement learning starting from the implementation of the building blocks for configuring training logging visualizing testing and monitoring the agent You will walk through the process of building intelligent agents from scratch to perform a variety of tasks In the closing chapters the book provides an overview of the latest learning environments and learning algorithms along with pointers to more resources that will help you take your deep reinforcement learning skills to the next level What you will learn Explore intelligent agents and learning environments Understand the basics of RL and deep RL Get started with OpenAI Gym and PyTorch for deep reinforcement learning Discover deep Q learning agents to solve discrete optimal control tasks Create custom learning environments for real world problems Apply a deep actor critic agent to drive a car autonomously in CARLA Use the latest learning environments and algorithms to upgrade your intelligent agent development skills Who this book is for If you re a student game machine learning developer or AI enthusiast looking to get started with building intelligent agents and algorithms to solve a variety of problems with the OpenAI Gym interface this book is for you You will also find this book useful if you want to learn how to build deep reinforcement learning based agents to solve problems in your domain of interest Though the book covers all the basic concepts that you need to know some working knowledge of Python programming language will help you get the most out of it

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terminologies practices and strategy necessary to successfully incorporate AI into your business intelligence estate Jen Stirrup CEO of AI and BI leadership consultancy Data Relish and Thomas Weinandy research economist at Upside show you how to use data already available to your organization Springboarding from the skills that you already possess this book adds AI to your organization s technical capability and expertise with Microsoft Power BI By using your conceptual knowledge of BI you ll learn how to choose the right model for your AI work and identify its value and validity Use Power BI to build a good data model for AI Demystify the AI terminology that you need to know Identify AI project roles responsibilities and teams for AI Use AI models including supervised machine learning techniques Develop and train models in Azure ML for consumption in Power BI Improve your business AI maturity level with Power BI Use the AI feedback loop to help you get started with the next project

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2590 2592 constitutes poster papers and late breaking results workshops and tutorials practitioners industry and policy track doctoral consortium blue sky and wideAIED papers presented at the 26th International Conference on Artificial Intelligence in Education AIED 2025 held in Palermo Italy during July 22 26 2025 The 72 full papers and 73 short papers 72 of them presented as posters presented in this book were carefully reviewed and selected from 296 submissions They are organized in topical sections as follows Part I BlueSky Practitioners Industry and Policy WideAIED Doctoral Consortium Part II Late Breaking Results Part III Late Breaking Results Workshops and Tutorials **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 *Pricing Decoded*

Danilo Zatta, Maciej Kraus, 2024-11-25 Pricing is a key priority of every company globally as both customers and businesses grapple with ever more challenging economic conditions Pricing Decoded is an authoritative but easy to read guide to support the transition to robust pricing to drive profitability Renowned pricing experts Danilo Zatta and Maciej Kraus show organizations how to boost profitability and build a competitive advantage transforming the way to set and manage prices Case studies from the world's leading pricing practitioners in both B2C and B2B organizations such as Alcatel Lucent Asashi Google BP Castrol Unilever Microsoft Borealis Hilton Nike MediaWorld Philips Healthcare Schneider Electric DHL Zalando Zuora Workday Assa Abloy and Coor are presented throughout This book makes smart and innovative pricing more accessible and understandable for all It provides a strong foundation in the concepts as well as the application in business empowering you to judge monetization opportunities in a more effective way and ultimately make better decisions The book is relevant to C levels managers entrepreneurs investors as well as sales marketing and pricing managers who want to learn more about topline potentials and monetization through pricing and achieve sustainable growth Hands-On APIs for AI

and Data Science Ryan Day, 2025-03-04 Are you ready to grow your skills in AI and data science A great place to start is learning to build and use APIs in real world data and AI projects API skills have become essential for AI and data science success because they are used in a variety of ways in these fields With this practical book data scientists and software developers will gain hands on experience developing and using APIs with the Python programming language and popular frameworks like FastAPI and StreamLit As you complete the chapters in the book you'll be creating portfolio projects that teach you how to Design APIs that data scientists and AIs love Develop APIs using Python and FastAPI Deploy APIs using multiple cloud providers Create data science projects such as visualizations and models using APIs as a data source Access APIs using generative AI and LLMs 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 Wide AIED and Late Breaking Results Part Two Late Breaking Results Doctoral Consortium Workshops and Tutorials ChatGPT For Dummies Pam Baker, 2023-05-22 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

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Automating Translation Joss Moorkens, Andy Way, Séamus Lankford, 2024-08-29 Translation technology is essential for translation students practising translators and those working as part of the language services industry but looming above others are the tools for automating translation machine translation and more recently generative AI based on large language models LLMs This book authored by leading experts demystifies machine translation explaining its origins its training data how neural machine translation and LLMs work how to measure their quality how translators interact with contemporary systems for automating translation and how readers can build their own machine translation or LLM In later chapters the scope of the book expands to look more broadly at translation automation in audiovisual translation and localisation Importantly the book also examines the sociotechnical context focusing on ethics and sustainability Enhanced with activities further reading and resource links including online support material on the Routledge Translation studies portal this is an essential textbook for students of translation studies trainee and practising translators and users of MT and multilingual LLMs Additional resources are available on the Routledge Translation Studies Portal

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 Features Understand the power of potential GPT 3 language models and the risks involved Explore core GPT 3 use cases such as text generation classification and semantic search using engaging examples Plan and prepare a GPT 3 application for the OpenAI review process required for publishing a live application

Book 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

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Inhuman Power Nick Dyer-Witheford,Atle Mikkola Kjosen,James Steinhoff,2019-06-20 Artificial Intelligence AI has seen major advances in recent years While machines were always central to the Marxist analysis of capitalism AI is a new kind of machine that Marx could not have anticipated Contemporary machine learning AI allows machines to increasingly approach human capacities for perception and reasoning in narrow domains This book explores the relationship between Marxist theory and AI through the lenses of different theoretical concepts including surplus value labour the general conditions of production class composition and surplus population It argues against left accelerationism and post Operaismo thinkers asserting that a deeper analysis of AI produces a more complex and disturbing picture of capitalism s future than has previously been identified Inhuman Power argues that on its current trajectory AI represents an ultimate weapon for capital It will render humanity obsolete or turn it into a species of transhumans working for a wage until the heat death of the universe a fate that is only avoidable by communist revolution

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