

# 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 Install

**Lucas A. Meyer**



## **Openai Price Install:**

Building AI Applications with OpenAI APIs Martin Yanev, 2024-10-04 Improve your app development skills by building a ChatGPT clone code bug fixer quiz generator translation app email auto reply PowerPoint generator and more Key Features Transition into an expert AI developer by mastering ChatGPT concepts including fine tuning and integrations Gain hands on experience through real world projects covering a wide range of AI applications Implement payment systems in your applications by integrating the ChatGPT API with Stripe Purchase of the print or Kindle book includes a free PDF eBook Book Description Unlock the power of AI in your applications with ChatGPT with this practical guide that shows you how to seamlessly integrate OpenAI APIs into your projects enabling you to navigate complex APIs and ensure seamless functionality with ease This new edition is updated with key topics such as OpenAI Embeddings which ll help you understand the semantic relationships between words and phrases You ll find out how to use ChatGPT Whisper and DALL E APIs through 10 AI projects using the latest OpenAI models GPT 3 5 and GPT 4 with Visual Studio Code as the IDE Within these projects you ll integrate ChatGPT with frameworks and tools such as Flask Django Microsoft Office APIs and PyQt You ll get to grips with NLP tasks build a ChatGPT clone and create an AI code bug fixing SaaS app The chapters will also take you through speech recognition text to speech capabilities language translation generating email replies creating PowerPoint presentations and fine tuning ChatGPT along with adding payment methods by integrating the ChatGPT API with Stripe By the end of this book you ll be able 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 OpenAI API for NLP tasks Build deploy and integrate payments into various desktop and SaaS AI applications Integrate ChatGPT with frameworks such as Flask Django and Microsoft Office APIs Unleash your creativity by integrating DALL E APIs to generate stunning AI art within your desktop apps Experience the power of Whisper API s speech recognition and text to speech features Find out how to fine tune ChatGPT models for your specific use case Master AI embeddings to measure the relatedness of text strings Who this book is for This book is for a diverse range of professionals including programmers entrepreneurs and software enthusiasts Beginner programmers Python developers exploring AI applications with ChatGPT software developers integrating AI technology and web developers creating AI powered web applications with ChatGPT will find this book beneficial Scholars and researchers working on AI projects with ChatGPT will also find it valuable Basic knowledge of Python and familiarity with APIs is needed to understand the topics covered in this book **OpenAI API Cookbook** Henry Habib, 2024-03-12 Explore the vast possibilities of integrating the ChatGPT API across various domains from creating simple wrappers to developing knowledge based assistants multi model applications and conversational interfaces Key Features Understand the different elements endpoints and parameters of the OpenAI API Build tailored intelligent applications and workflows with the OpenAI API Create versatile assistants with for a multitude of tasks Purchase of the print or Kindle book includes a free PDF

eBook Book Description As artificial intelligence continues to reshape industries with OpenAI at the forefront of AI research knowing how to create innovative applications such as chatbots virtual assistants content generators and productivity enhancers is a game changer This book takes a practical recipe based approach to unlocking the power of OpenAI API to build high performance intelligent applications in diverse industries and seamlessly integrate ChatGPT in your workflows to increase productivity You ll begin with the OpenAI API fundamentals covering setup authentication and key parameters and quickly progress to the different elements of the OpenAI API Once you ve learned how to use it effectively and tweak parameters for better results you ll follow advanced recipes for enhancing user experience and refining outputs The book guides your transition from development to live application deployment setting up the API for public use and application backend Further you ll discover step by step recipes for building knowledge based assistants and multi model applications tailored to your specific needs By the end of this book you ll have worked through recipes involving various OpenAI API endpoints and built a variety of intelligent applications ready to apply this experience to building AI powered solutions of your own What you will learn Grasp the fundamentals of the OpenAI API Navigate the API s capabilities and limitations of the API Set up the OpenAI API with step by step instructions from obtaining your API key to making your first call Explore advanced features such as system messages fine tuning and the effects of different parameters Integrate the OpenAI API into existing applications and workflows to enhance their functionality with AI Design and build applications that fully harness the power of ChatGPT Who this book is for This book is perfect for developers data scientists AI tech enthusiasts citizen developers and no code aficionados keen on using and mastering the OpenAI API Whether you re a beginner or experienced professional this book is ideal for quickly creating intelligent applications such as chatbots or content generators through step by step recipes that take you from the basics of the API to creating sophisticated applications systematically The OpenAI API is accessed with Python in this book so familiarity with Python and APIs is preferred but not mandatory [OpenAI GPT For Python Developers](#) Aymen El Amri,2024-05-21 OpenAI GPT for Python Developers is your comprehensive guide to mastering the integration of OpenAI s GPT models into your Python projects enhancing applications with various AI capabilities from chat completions to AI avatars Key Features Strategies for optimizing and personalizing GPT models for specific applications Insights into integrating additional OpenAI technologies like Whisper and Weaviate Strong emphasis on responsible AI development and deployment Book Description OpenAI GPT for Python Developers is meticulously crafted to provide Python developers with a deep dive into the mechanics and applications of GPT technology beginning with a captivating narrative on the evolution of OpenAI and the fundamental workings of GPT models As readers progress they will be expertly guided through the essential steps of setting up a development environment tailored for AI innovations coupled with insightful advice on selecting the most appropriate GPT model to suit specific project needs The guide progresses into practical tutorials that cover the implementation of chat completions and the art of prompt engineering providing a solid

foundation in harnessing the capabilities of GPT for generating human like text responses Practical applications are further expanded with discussions on the creation of autonomous AI to AI dialogues the development of AI avatars and the strategic use of AI in interactive applications In addition to technical skills this book addresses the ethical implications and prospects of AI technologies encouraging a holistic view of AI development The guide is enriched with detailed examples step by step tutorials and comprehensive explanations that illuminate the theoretical aspects and emphasize practical implementation

What you will learn Set up the development environment for OpenAI GPT Understand and choose the right GPT model for your needs Implement advanced prompt engineering techniques Explore embedding and advanced embedding examples Utilize OpenAI s Whisper for speech recognition and translation Integrate OpenAI TTS models for text to speech applications

Who this book is for This book is designed for readers at an intermediate to advanced level who have a basic understanding of machine learning concepts and are eager to expand their expertise in AI with a focus on OpenAI s technologies Ideal for those involved in AI driven projects the book assumes familiarity with Python programming and a fundamental grasp of AI principles It s especially beneficial for developers aiming to integrate GPT models into applications AI researchers and technical professionals involved in AI product development

*Building AI Applications with ChatGPT APIs* 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 Description Combining 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

**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 open source 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 [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 Description In 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

*Getting Started with Azure OpenAI* Shimon Ifrah, 2024-08-28 Learn to develop AI solutions using Azure SDK for NET and deploy them on Microsoft Azure infrastructure The book will teach you how to deploy Azure OpenAI services using Azure PowerShell Azure CLI and Azure API as well as how to develop a variety of AI solutions using Azure AI services and tools The book starts with an introduction to Azure AI and OpenAI followed by a thorough exploration of the necessary tools and services for deploying OpenAI in Azure It covers Azure PowerShell Copilot and Azure CLI and includes guidance on using Terraform with Azure OpenAI resources Subsequently detailed discussions on developing the Azure NET SDK for Azure OpenAI and AI Services alongside its use cases are provided Progressing further readers will gain insight into initiating with Azure AI Studio and building Copilot with its help Finally various Azure AI services and AI tools are covered encompassing GitHub Copilot for code writing and management After reading the book you will be able to develop AI solutions in Azure and deploy its services in OpenAI

What You Will Learn Develop a Copilot using Azure AI Studio Access Azure AI and OpenAI services using API Deploy Azure AI Services using Azure CLI PowerShell and Terraform The use of Postman to connect to Azure OpenAI

Who This Book Is for This book will be helpful for System Administrators and Azure Administrators

*The Future of Finance with ChatGPT and Power BI* James Bryant, Alope 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 Description In 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

**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 *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 Activerloop 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 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

*RAG-Driven Generative AI* Denis Rothman,2024-09-30 Minimize AI hallucinations and build accurate custom generative AI pipelines with RAG using embedded vector databases and integrated human feedback Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Implement RAG s traceable outputs linking each response to its source document to build reliable multimodal conversational agents Deliver accurate generative AI models in pipelines integrating RAG real time human feedback improvements and knowledge graphs Balance cost and performance between dynamic retrieval datasets and fine tuning static data Book DescriptionRAG Driven Generative AI provides a roadmap for building effective LLM computer vision and generative AI systems that balance performance and costs This book offers a detailed exploration of RAG and how to design manage and control multimodal AI pipelines By connecting outputs to 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

**Mastering Large Language Models with Python: Unleash the Power of Advanced Natural Language Processing for Enterprise Innovation and Efficiency Using Large Language Models (LLMs) with Python** Raj

Arun,2024-04-12 A Comprehensive Guide to Leverage Generative AI in the Modern Enterprise Key Features Gain a comprehensive understanding of LLMs within the framework of Generative AI from foundational concepts to advanced applications Dive into practical exercises and real world applications accompanied by detailed code walkthroughs in Python Explore LLMOps with a dedicated focus on ensuring trustworthy AI and best practices for deploying managing and maintaining LLMs in enterprise settings Book Description Mastering Large Language Models with Python is an indispensable resource that offers a comprehensive exploration of Large Language Models LLMs providing the essential knowledge to leverage these transformative AI models effectively From unraveling the intricacies of LLM architecture to practical applications like code generation and AI driven recommendation systems readers will gain valuable insights into implementing LLMs in diverse projects Covering both open source and proprietary LLMs the book delves into foundational concepts and advanced techniques empowering professionals to harness the full potential of these models Detailed discussions on quantization techniques for efficient deployment operational strategies with LLMOps and ethical considerations ensure a well rounded understanding of LLM implementation Through real world case studies code snippets and practical examples readers will navigate the complexities of LLMs with confidence paving the way for innovative solutions and organizational growth Whether you seek to deepen your understanding drive impactful applications or lead AI driven initiatives this book equips you with the tools and insights needed to excel in the dynamic landscape of artificial intelligence What you will learn In depth study of LLM architecture and its versatile applications across industries Harness open source and proprietary LLMs to craft innovative solutions Implement LLM APIs for a wide range of tasks spanning natural language processing audio analysis and visual recognition Optimize LLM deployment through techniques such as quantization and operational strategies like LLMOps ensuring efficient and scalable model usage Table of Contents 1 The Basics of Large Language Models and Their Applications 2 Demystifying Open Source Large Language Models 3 Closed Source Large Language Models 4 LLM APIs for Various Large Language Model Tasks 5 Integrating Cohere API in Google Sheets 6 Dynamic Movie Recommendation Engine Using LLMs 7 Document and Web based QA Bots with Large Language Models 8 LLM Quantization Techniques and Implementation 9 Fine tuning and Evaluation of LLMs 10 Recipes for Fine Tuning and Evaluating LLMs 11 LLMOps Operationalizing LLMs at Scale 12 Implementing LLMOps in Practice Using MLflow

on Databricks 13 Mastering the Art of Prompt Engineering 14 Prompt Engineering Essentials and Design Patterns 15 Ethical Considerations and Regulatory Frameworks for LLMs 16 Towards Trustworthy Generative AI A Novel Framework Inspired by Symbolic Reasoning Index     *Image Processing and Computer Vision Masterclass with Python* Sandipan Dey,2025-07-31

DESCRIPTION Image processing and computer vision technologies combined with the rapid advancements in generative AI have become foundational to many modern applications As visual data continues to grow exponentially the ability to analyze interpret and generate images using advanced algorithms and AI is more critical than ever for driving innovation across industries This book provides a thorough exploration of advanced techniques and practical implementations in the field of computer vision This book offers a problem oriented approach that bridges traditional image processing with modern machine learning and generative AI methods This new edition significantly expands into specialized domains with medical imaging applications using professional libraries like pydicom ITK and nnUNet for clinical diagnosis including COVID 19 detection and brain tumor segmentation plus remote sensing analysis with satellite processing By the end of this book readers will have developed strong practical skills in both classical and cutting edge image processing and computer vision techniques empowered to confidently design implement and adapt solutions across a wide range of real world applications They will emerge with a deep understanding of theory hands on coding experience and the ability to leverage AI and generative models to push the boundaries of visual computing WHAT YOU WILL LEARN Restore and enhance images using classical and deep learning methods Segment images with advanced clustering and neural network techniques Extract and match features for image alignment and recognition Build and train image classifiers with ML and AI Learn advanced restoration and inpainting techniques using cutting edge deep learning models Explore specialized domain expertise in medical imaging applications using professional libraries WHO THIS BOOK IS FOR This book is ideal for undergraduate and graduate students researchers and professionals in computer vision image processing and AI It also serves computer vision engineers image analysts data scientists software engineers and industry practitioners seeking practical hands on expertise using Python TABLE OF CONTENTS 1 Image Restoration and Inverse Problems in Image Processing 2 More Image Restoration and Image Inpainting 3 Image Segmentation 4 More Image Segmentation 5 Image Feature Extraction and Its Applications Image Registration 6 Applications of Image Feature Extraction 7 Image Classification 8 Object Detection and Recognition 9 Application of Image Processing and Computer Vision in Medical Imaging 10 Application of Image Processing and Computer Vision in Medical Imaging and Remote Sensing 11 Miscellaneous Problems in Image Processing and Computer Vision     *AI Agents in Practice* Valentina Alto,2025-08-28 Master the art of building AI agents with this hands on guide to orchestration multi agent systems real world case studies and ethical insights to drive immediate business impact Key Features Build production ready AI agents with hands on tutorials for diverse industry applications Explore multi agent system architectures with practical frameworks for orchestrator comparison Future proof your AI development with ethical

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