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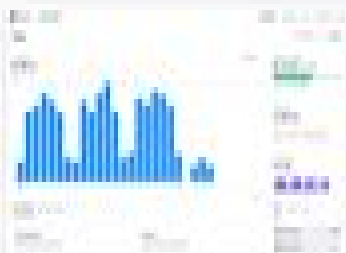
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OpenAI developer platform

Get your API keys

Create or join an organization to access API keys and a suite of developer tools

Start building



Meet the models

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GPT models

GPT models are fast, versatile, cost-efficient, and customizable

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Reasoning models

Reasoning models use chains of thought reasoning to solve all manner of tasks

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Start building

Structural Outputs

Stream model responses as they're generated, with JSON, XML, and more

Function Calling

Build apps by calling real-world APIs

Assistant API

Build conversational assistants with built-in memory, tools, and more

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Building Generative AI Services with FastAPI Alireza Parandeh,2025-04-15 Ready to build production grade applications with generative AI This practical guide takes you through designing and deploying AI services using the FastAPI web framework Learn how to integrate models that process text images audio and video while seamlessly interacting with databases filesystems websites and APIs Whether you re a web developer data scientist or DevOps engineer this book equips you with the tools to build scalable real time AI applications Author Alireza Parandeh provides clear explanations and hands on examples covering authentication concurrency caching and retrieval augmented generation RAG with vector databases You ll also explore best practices for testing AI outputs optimizing performance and securing microservices With containerized deployment using Docker you ll be ready to launch AI powered applications confidently in the cloud Build generative AI services that interact with databases filesystems websites and APIs Manage concurrency in AI workloads and handle long running tasks Stream AI generated outputs in real time via WebSocket and server sent events Secure services with authentication content filtering throttling and rate limiting Optimize AI performance with caching batch processing and fine tuning techniques Visit the Book s Website

Scaling Enterprise Solutions with Large Language Models Arindam Ganguly,2025-05-20 Artificial Intelligence AI is the bedrock of today s applications propelling the field towards Artificial General Intelligence AGI Despite this advancement integrating such breakthroughs into large scale production grade enterprise applications presents significant challenges This book addresses these hurdles in the domain of large language models within enterprise solutions By leveraging Big Data engineering and popular data cataloguing tools you ll see how to transform challenges into opportunities emphasizing data reuse for multiple AI models across diverse domains You ll gain insights into large language model behavior by using tools such as LangChain and LLamaIndex to segment vast datasets intelligently Practical considerations take precedence guiding you on effective AI Governance and data security especially in

data sensitive industries like banking This enterprise focused book takes a pragmatic approach ensuring large language models align with broader enterprise goals From data gathering to deployment it emphasizes the use of low code AI workflow tools for efficiency Addressing the challenges of handling large volumes of data the book provides insights into constructing robust Big Data pipelines tailored for Generative AI applications Scaling Enterprise Solutions with Large Language Models will lead you through the Generative AI application lifecycle and provide the practical knowledge to deploy efficient Generative AI solutions for your business What You Will Learn Examine the various phases of an AI Enterprise Applications implementation Turn from AI engineer or Data Science to an Intelligent Enterprise Architect Explore the seamless integration of AI in Big Data Pipelines Manage pivotal elements surrounding model development ensuring a comprehensive understanding of the complete application lifecycle Plan and implement end to end large scale enterprise AI applications with confidence Who This Book Is For Enterprise Architects Technical Architects Project Managers and Senior Developers

Human Interaction and Emerging Technologies (IHIET-AI 2025): Artificial Intelligence and Future Applications Tareq Z. Ahram, Antonio Lopez Arquillos, Juan M. Gandarias, Adrian Morales Casas, 2025-04-28 Human Interaction and Emerging Technologies IHIET AI 2025 Artificial Intelligence and Future Applications Proceedings of the 13th International Conference on Human Interaction Emerging Technologies Artificial Intelligence Future Applications Costa Del Sol Universidad de M laga Malaga Spain April 22 24 Knowledge Graphs and LLMs in Action Alessandro Negro, Vlastimil Kus, Giuseppe Futia, Fabio Montagna, 2025-11-11 Combine knowledge graphs with large language models to deliver powerful reliable and explainable AI solutions Knowledge graphs model relationships between the objects events situations and concepts in your domain so you can readily identify important patterns in your own data and make better decisions Paired up with large language models they promise huge potential for working with structured and unstructured enterprise data building recommendation systems developing fraud detection mechanisms delivering customer service chatbots or more This book provides tools and techniques for efficiently organizing data modeling a knowledge graph and incorporating KGs into the functioning of LLMs and vice versa In Knowledge Graphs and LLMs in Action you will learn how to Model knowledge graphs with an iterative top down approach based in business needs Create a knowledge graph starting from ontologies taxonomies and structured data Build knowledge graphs from unstructured data sources using LLMs Use machine learning algorithms to complete your graphs and derive insights from it Reason on the knowledge graph and build KG powered RAG systems for LLMs In Knowledge Graphs and LLMs in Action you ll discover the theory of knowledge graphs then put them into practice with LLMs to build working intelligence systems You ll learn to create KGs from first principles go hands on to develop advisor applications for real world domains like healthcare and finance build retrieval augmented generation for LLMs and more About the technology Using knowledge graphs with LLMs reduces hallucinations enables explainable outputs and supports better reasoning By naturally encoding the relationships in your data knowledge graphs help create AI systems that are more

reliable and accurate even for models that have limited domain knowledge About the book Knowledge Graphs and LLMs in Action shows you how to introduce knowledge graphs constructed from structured and unstructured sources into LLM powered applications and RAG pipelines Real world case studies for domain specific applications from healthcare to financial crime detection illustrate how this powerful pairing works in practice You ll especially appreciate the expert insights on knowledge representation and reasoning strategies What s inside Design knowledge graphs for real world needs Build KGs from structured and unstructured data Apply machine learning to enrich complete and analyze graphs Pair knowledge graphs with RAG systems About the reader For ML and AI engineers data scientists and data engineers Examples in Python About the author Alessandro Negro is Chief Scientist at GraphAware and author of Graph Powered Machine Learning Vlastimil Kus Giuseppe Futia and Fabio Montagna are seasoned ML and AI professionals specializing in Knowledge Graphs Large Language Models and Graph Neural Networks Table of Contents Part 1 1 Knowledge graphs and LLMs A killer combination 2 Intelligent systems A hybrid approach Part 2 3 Create your first knowledge graph from ontologies 4 From simple networks to multisource integration Part 3 5 Extracting domain specific knowledge from unstructured data 6 Building knowledge graphs with large language models 7 Named entity disambiguation 8 NED with open LLMs and domain ontologies Part 4 9 Machine learning on knowledge graphs A primer approach 10 Graph feature engineering Manual and semiautomated approaches 11 Graph representation learning and graph neural networks 12 Node classification and link prediction with GNNs Part 5 13 Knowledge graph powered retrieval augmented generation 14 Asking a KG questions with natural language 15 Building a QA agent with LangGraph

Building Business-Ready Generative AI Systems Denis Rothman, 2025-07-25 Supercharge your business with context aware AI controllers adaptive agents multimodal reasoning functionality neuroscientific memory systems and flexible handler mechanisms that integrate the emerging generative AI models Get with your book PDF copy AI Assistant and Next Gen Reader free Key Features Build an adaptive context aware AI controller with advanced memory strategies Enhance GenAISys with multi domain multimodal reasoning capabilities and Chain of Thought CoT Seamlessly integrate cutting edge OpenAI and DeepSeek models as you see fit Book Description Standalone LLMs no longer deliver sufficient business value on their own This guide moves beyond basic chatbots showing you how to build agentic ChatGPT grade systems capable of sophisticated semantic and sentiment analysis powered by context engineering You ll design AI controller architectures with multi user memory retention to dynamically adapt your system to diverse user and system inputs You ll architect a Retrieval Augmented Generation system with Pinecone to combine instruction driven scenarios Through context engineering you ll minimize token usage maximize response quality and create systems that reason across complex tasks with precision You ll enhance your system s intelligence with multimodal capabilities image generation voice interactions and machine driven reasoning leveraging Chain of Thought and context chaining to address cross domain automation challenges You ll also integrate OpenAI s suite and DeepSeek R1

without disrupting your existing GenAISys ecosystem With context engineering as the backbone every step becomes a deliberate act of shaping model behavior Your GenAISys will apply neuroscience inspired insights to marketing strategies predict human mobility integrate smoothly into human workflows and connect to live external data all wrapped in a polished investor ready interface What you will learn Implement an AI controller with a conversation AI agent and orchestrator at its core Build contextual awareness with short term long term and cross session memory Design cross domain automation with multimodal reasoning image generation and voice features Expand a CoT agent by integrating consumer memory understanding Integrate cutting edge models of your choice without disrupting your existing GenAISys Connect to real time external data while blocking security breaches Who this book is for This book is for AI and Machine Learning Engineers seeking to enhance their understanding of Generative AI and its enterprise applications It will particularly benefit those interested in building AI agents creating advanced orchestration systems and leveraging AI for automation in marketing production and logistics Software architects and enterprise developers looking to build scalable AI driven systems will also find immense value in this guide No prior superintelligence experience is necessary but familiarity with AI concepts is recommended

Downtowns & Town Centers ,2005 *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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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 array of NLP tasks What you will learn Understand what GPT 3 is and how it can be used for various NLP tasks Get a high level introduction to GPT 3 and the OpenAI API Implement JavaScript and Python code examples that call the OpenAI API Structure GPT 3 prompts and options to get the best possible results Select the right GPT 3 engine or model to optimize for speed and cost efficiency Find out which use cases would not be suitable for GPT 3 Create a GPT 3 powered knowledge base application that follows OpenAI guidelines Who this book is for Exploring GPT 3 is for anyone interested in natural language processing or learning GPT 3 with or without a technical background Developers product managers entrepreneurs and hobbyists looking to get to grips with NLP AI and GPT 3 will find this book useful Basic computer skills are all you need to get the most out of this book

ChatGPT Atlas Browser Guide 2025 Konstantin Titov, 2025-10-22 ChatGPT Atlas Browser Guide 2025 How to Use OpenAI s AI Browser Agent Mode and Browser Memories on macOS Setup Privacy Controls and Productivity Workflows Be first move fast ChatGPT Atlas is OpenAI s new chat first web browser and this is one of the first hands on guides written for real users who want results not hype Whether you re a student creator analyst or team lead this book shows you exactly how to install Atlas on macOS set it up in minutes and turn everyday browsing into automated private high leverage workflows Atlas brings ChatGPT to any page adds optional browser memories and introduces Agent Mode so it can take actions for you with guardrails you control What you ll learn step by step Install set up on macOS sign in import passwords bookmarks history and tune the new tab Ask ChatGPT experience for speed Search less finish more use on page chat for instant summaries clean citations comparisons and follow up questions without copy paste context juggling Stay in control master Incognito the address bar page visibility toggle and data controls so Atlas only sees what you allow Learn how memories are optional visible archivable and deletable Agent Mode safely let ChatGPT click around for you researching planning and completing routine tasks while respecting built in limits e g it can t run code or install extensions and your approvals Power workflows research briefs competitor scans shopping carts study aids and executive summaries you can trust For families teams understand parental controls and Business Enterprise basics so you

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Gerardus Blokdyk,2018-01-16 Is the scope of OpenAI defined Do we all define OpenAI in the same way Can we do OpenAI without complex expensive analysis Is OpenAI currently on schedule according to the plan Is a OpenAI Team Work effort in place 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 areas need attention Your purchase includes access details to the OpenAI self assessment dashboard download which gives you your dynamically prioritized projects ready tool and shows your organization exactly what to do next Your exclusive instant access details can be found in your book Breaking the Language Barrier: Demystifying Language Models with OpenAI Rayan Wali,2023-03-08 Breaking the Language Barrier Demystifying Language Models with OpenAI is an informative

guide that covers practical NLP use cases from machine translation to vector search in a clear and accessible manner In addition to providing insights into the latest technology that powers ChatGPT and other OpenAI language models including GPT 3 and DALL E this book also showcases how to use OpenAI on the cloud specifically on Microsoft Azure to create scalable and efficient solutions

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

GPT-4 Complete Mark Huck, 2023 Exploring the OpenAI Playground Aaron Cockman, 2025-04-13 What if all you need to generate great ideas and develop interesting plot lines all the coding you do is nothing but a few prompts away from perfection or even building your own AI apps What do I mean when I think about how AI can drive creativity scale productivity and cement forks in the ground of industries AI is no longer a future but is present

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Creating ChatGPT Apps with

JavaScript Bruce Hopkins Jr., Bruce Hopkins Sr., 2025-06-06 Transform your JavaScript expertise through the power of Open AI API models using Creating ChatGPT Apps with JavaScript This book will guide JavaScript developers to build smart applications while providing tangible knowledge of OpenAI's API for text summarization creating transcripts from audio files generating images and running models locally on your machine Through hands on projects and code examples readers will discover how to build AI powered apps from scratch such as using embeddings to train a Discord bot to answer customers questions in multiple languages Readers will also learn to dictate text for writing articles or blogs with a localized integration of Whisper and generate hero images with Dall E What's more in the final chapter of this book you'll be able to maximize productivity by creating a Smart Assistant like Alexa or Siri with JavaScript and the new Raspberry Pi 5 From seasoned developers to newcomers this book offers something for everyone Not only will readers learn to build apps with ChatGPT and JavaScript but they will also learn best practices for prompt engineering They'll understand how AI models can enhance workplace efficiency and utilize natural language processing NLP to make interactions with applications feel well natural The end result is expert knowledge in leveraging ChatGPT programmatically and incorporating the technology into diverse applications What You Will Learn Gain a deeper understanding of ChatGPT and how OpenAI's models work and different ways to implement each of their various features Authenticate with ChatGPT and OpenAI's API and learn to send prompts with best practices with prompt engineering Streamline productivity and content creation by leveraging transcription generation for dictation and image generation for creating hero images Stay ahead of the game by incorporating different new features of OpenAI's API and understanding more complex concepts like using GPT 4o to train a Discord bot with an FAQ to assist with multilingual tech support Who This Book is for This book is written for JavaScript developers and hobbyists that want to use OpenAI and ChatGPT to create intelligent applications and streamline productivity No prior experience with ChatGPT or OpenAI APIs is required

GPT-4o J Andy Peters, 2024-11-19 In GPT 4o Predicted Outputs and Why It's Faster Than Ever Before dive into the groundbreaking world of predictive AI and learn how OpenAI's latest feature is transforming the way we work create and innovate Whether you're a developer refining code a content creator updating blogs or a data scientist working with complex datasets this book reveals how to unlock unparalleled speed precision and efficiency with GPT 4o Gone are the days of waiting endlessly for AI to process tasks token by token With Predicted Outputs you can guide the model with hints enabling it to skip the redundant and focus on what truly matters delivering results in seconds Learn why a task that once took 70 seconds can now be completed in 20 and how this revolutionary approach is reshaping workflows across industries This isn't just another book about AI it's your roadmap to leveraging one of the most advanced tools in artificial intelligence Inside you'll discover How developers are cutting debugging and refactoring times in half The secret to making article and blog updates seamless and consistent Why data analysts can now tackle massive datasets with unprecedented ease The hidden potential of streaming mode for real time results and dynamic workflows Whether you're a

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