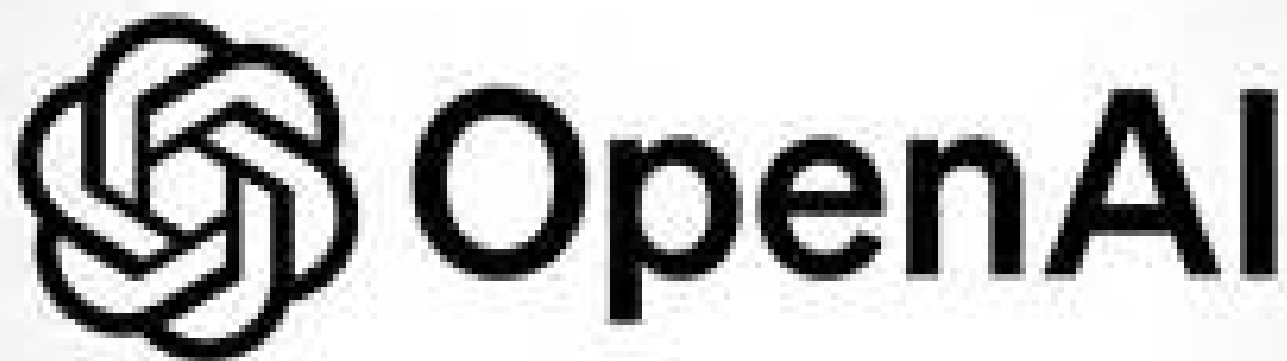




Openai Top Install

Praveen Palanisamy



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Building Agents with OpenAI Agents SDK Henry Habib, 2025-10-10 Master OpenAI's Agents SDK to design production ready AI agents and agentic systems that solve real world problems with practical guidance Get your book with a free PDF AI Assistant and Next Gen Reader Key Features Gain a complete understanding of the OpenAI Agents SDK features including models tools memory guardrails orchestration tracing and multi agent systems Progressively build AI agents through several hands on projects that evolve from a simple workflow to a complex multi agent system Implement advanced agent capabilities such as RAG MCPs administration workflow integration and much more Book Description Everyone's talking about AI agents but how do you build one that works in the real world Not a toy demo but an agent that solves real problems saves time and integrates into workflows With vague frameworks fragmented tooling and endless hype most developers are left without a clear path The hardest part isn't technical it is knowing where to start This book gives you that starting point It's a complete guide to building intelligent AI agents and agentic systems using the official OpenAI Agents SDK It begins by grounding you in the core concepts design principles and architecture of AI agents how they differ from other traditional systems their advantages and why that matters Through practical step by step projects you'll master every feature of the SDK tools memory RAG multi agent orchestration tracing handoffs and more while contributing to an end to end agent system that grows in complexity Projects include a custom support agent invoice and inventory assistant health advisor sales trainer and data analyst giving you production ready skills By the end you'll know how to design build and deploy agentic systems that interact with APIs query databases hand off to external systems and drive meaningful outcomes You won't just understand AI agents you'll be ready to ship them What you will learn Understand the core principles of AI agents and why they matter Use the OpenAI Agents SDK to build real working agents from scratch Design both single agent and multi agent systems Integrate external tools APIs and data sources to extend agent capabilities Add memory and stateful context to your agents so they can remember and adapt over time Coordinate agent to agent handoff orchestrations Secure monitor and scale agents in production Who this book is for This book is for LLM engineers developers tech savvy professionals analysts and consultants who want to build practical agentic AI solutions using the OpenAI SDK A basic understanding of Python and AI concepts is recommended but no prior experience with agents is required Whether you're exploring agents for the first time or want to deepen your skills with hands on projects this guide provides structured production ready knowledge

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

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 n 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 *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 *Hands-On Reinforcement Learning with Python* Sudharsan Ravichandiran,2018-06-28 A hands on guide enriched with examples to master deep reinforcement learning algorithms with Python Key Features Your entry point into the world of artificial intelligence using the power of Python An example rich guide to master various RL and DRL algorithms Explore various state of the art architectures along with math Book Description Reinforcement Learning RL is the trending and most promising branch of artificial intelligence Hands On Reinforcement learning with Python will help you master not only the basic reinforcement learning algorithms but also the advanced deep reinforcement learning algorithms The book starts with an introduction to Reinforcement Learning followed by OpenAI Gym and TensorFlow You will then explore various RL

algorithms and concepts such as Markov Decision Process Monte Carlo methods and dynamic programming including value and policy iteration This example rich guide will introduce you to deep reinforcement learning algorithms such as Dueling DQN DRQN A3C PPO and TRPO You will also learn about imagination augmented agents learning from human preference DQfD HER and many more of the recent advancements in reinforcement learning By the end of the book you will have all the knowledge and experience needed to implement reinforcement learning and deep reinforcement learning in your projects and you will be all set to enter the world of artificial intelligence What you will learn Understand the basics of reinforcement learning methods algorithms and elements Train an agent to walk using OpenAI Gym and Tensorflow Understand the Markov Decision Process Bellman s optimality and TD learning Solve multi armed bandit problems using various algorithms Master deep learning algorithms such as RNN LSTM and CNN with applications Build intelligent agents using the DRQN algorithm to play the Doom game Teach agents to play the Lunar Lander game using DDPG Train an agent to win a car racing game using dueling DQN Who this book is for If you re a machine learning developer or deep learning enthusiast interested in artificial intelligence and want to learn about reinforcement learning from scratch this book is for you Some knowledge of linear algebra calculus and the Python programming language will help you understand the concepts covered in this book

Python Reinforcement Learning Sudharsan Ravichandiran,Sean Saito,Rajalingappaa Shanmugamani,Yang Wenzhuo,2019-04-18 Apply modern reinforcement learning and deep reinforcement learning methods using Python and its powerful libraries Key FeaturesYour entry point into the world of artificial intelligence using the power of PythonAn example rich guide to master various RL and DRL algorithmsExplore the power of modern Python libraries to gain confidence in building self trained applicationsBook Description Reinforcement Learning RL is the trending and most promising branch of artificial intelligence This Learning Path will help you master not only the basic reinforcement learning algorithms but also the advanced deep reinforcement learning algorithms The Learning Path starts with an introduction to RL followed by OpenAI Gym and TensorFlow You will then explore various RL algorithms such as Markov Decision Process Monte Carlo methods and dynamic programming including value and policy iteration You ll also work on various datasets including image text and video This example rich guide will introduce you to deep RL algorithms such as Dueling DQN DRQN A3C PPO and TRPO You will gain experience in several domains including gaming image processing and physical simulations You ll explore TensorFlow and OpenAI Gym to implement algorithms that also predict stock prices generate natural language and even build other neural networks You will also learn about imagination augmented agents learning from human preference DQfD HER and many of the recent advancements in RL By the end of the Learning Path you will have all the knowledge and experience needed to implement RL and deep RL in your projects and you enter the world of artificial intelligence to solve various real life problems This Learning Path includes content from the following Packt products Hands On Reinforcement Learning with Python by Sudharsan RavichandiranPython Reinforcement Learning Projects by Sean Saito Yang Wenzhuo and

Rajalingappaa Shanmugamani What you will learn Train an agent to walk using OpenAI Gym and TensorFlow Solve multi armed bandit problems using various algorithms Build intelligent agents using the DRQN algorithm to play the Doom game Teach your agent to play Connect4 using AlphaGo Zero Defeat Atari arcade games using the value iteration method Discover how to deal with discrete and continuous action spaces in various environments Who this book is for If you re an ML DL enthusiast interested in AI and want to explore RL and deep RL from scratch this Learning Path is for you Prior knowledge of linear algebra is expected

Generative AI For Dummies Pam Baker, 2024-09-09 Generate a personal assistant with generative AI Generative AI tools capable of creating text images and even ideas seemingly out of thin air have exploded in popularity and sophistication This valuable technology can assist in authoring short and long form content producing audio and video serving as a research assistant and tons of other professional and personal tasks Generative AI For Dummies is your roadmap to using the world of artificial intelligence to enhance your personal and professional lives You ll learn how to identify the best platforms for your needs and write the prompts that coax out the content you want Written by the best selling author of ChatGPT For Dummies this book is the ideal place to start when you re ready to fully dive into the world of generative AI Discover the best generative AI tools and learn how to use them for writing designing and beyond Write strong AI prompts so you can generate valuable output and save time Create AI generated audio video and imagery Incorporate AI into your everyday tasks for enhanced productivity This book offers an easy to follow overview of the capabilities of generative AI and how to incorporate them into any job It s perfect for anyone who wants to add AI know how into their work

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

Transformers for Natural Language Processing Denis Rothman, 2022-03-25 OpenAI s GPT 3 ChatGPT GPT 4 and Hugging Face transformers for language tasks in one book Get a taste of the future of transformers including computer vision tasks and code writing and assistance Purchase of the print or Kindle book includes a free eBook in PDF format Key Features Improve your productivity with OpenAI s ChatGPT and GPT 4 from prompt engineering to creating and analyzing machine learning models Pretrain a BERT based model from scratch using Hugging Face Fine tune powerful transformer models including OpenAI s GPT 3 to learn the logic of your data Book Description Transformers are well transforming the world of AI There are many platforms and models out there but which ones best suit your needs Transformers for Natural Language Processing 2nd Edition guides you through the world of transformers highlighting the strengths of different models and platforms while teaching you the problem solving skills you need to tackle model weaknesses You ll use Hugging Face to pretrain a RoBERTa model from scratch from building the dataset to defining the data collator to training the model If you re looking to fine tune a pretrained model including GPT 3 then Transformers for Natural Language Processing 2nd Edition shows you how with step by step guides The book investigates machine translations speech to text text to speech question answering and many more NLP tasks It provides techniques to solve hard language problems and may even help with fake news anxiety read chapter 13 for more details You ll see how cutting edge platforms such as OpenAI have taken transformers beyond language into computer vision tasks and code creation using DALL E 2 ChatGPT and GPT 4 By the end of this book you ll know how transformers work and how to implement them and resolve issues like an AI detective What you will learn

Discover new techniques to investigate complex language problems Compare and contrast the results of GPT 3 against T5 GPT 2 and BERT based transformers Carry out sentiment analysis text summarization casual speech analysis machine translations and more using TensorFlow PyTorch and GPT 3 Find out how ViT and CLIP label images including blurry ones and create images from a sentence using DALL E Learn the mechanics of advanced prompt engineering for ChatGPT and GPT 4 Who this book is for If you want to learn about and apply transformers to your natural language and image data this book is for you You ll need a good understanding of Python and deep learning and a basic understanding of NLP to benefit most from this book Many platforms covered in this book provide interactive user interfaces which allow readers with a general interest in NLP and AI to follow several chapters And don t worry if you get stuck or have questions this book gives you direct access to our AI ML community to help guide you on your transformers journey

Deep Learning with TensorFlow and Keras Amita Kapoor, Antonio Gulli, Sujit Pal, Francois Chollet, 2022-10-06 Build cutting edge machine and deep learning systems for the lab production and mobile devices

Key Features Understand the fundamentals of deep learning and machine learning through clear explanations and extensive code samples Implement graph neural networks transformers using Hugging Face and TensorFlow Hub and joint and contrastive learning Learn cutting edge machine and deep learning techniques

Book Description Deep Learning with TensorFlow and Keras teaches you neural networks and deep learning techniques using TensorFlow TF and Keras You ll learn how to write deep learning applications in the most powerful popular and scalable machine learning stack available TensorFlow 2 x focuses on simplicity and ease of use with updates like eager execution intuitive higher level APIs based on Keras and flexible model building on any platform This book uses the latest TF 2 0 features and libraries to present an overview of supervised and unsupervised machine learning models and provides a comprehensive analysis of deep learning and reinforcement learning models using practical examples for the cloud mobile and large production environments This book also shows you how to create neural networks with TensorFlow runs through popular algorithms regression convolutional neural networks CNNs transformers generative adversarial networks GANs recurrent neural networks RNNs natural language processing NLP and graph neural networks GNNs covers working example apps and then dives into TF in production TF mobile and TensorFlow with AutoML What you will learn Learn how to use the popular GNNs with TensorFlow to carry out graph mining tasks Discover the world of transformers from pretraining to fine tuning to evaluating them Apply self supervised learning to natural language processing computer vision and audio signal processing Combine probabilistic and deep learning models using TensorFlow Probability Train your models on the cloud and put TF to work in real environments Build machine learning and deep learning systems with TensorFlow 2 x and the Keras API Who this book is for This hands on machine learning book is for Python developers and data scientists who want to build machine learning and deep learning systems with TensorFlow This book gives you the theory and practice required to use Keras TensorFlow and AutoML to build machine learning systems Some machine learning knowledge would

be useful We don't assume TF knowledge **Artificial Intelligence All-in-One For Dummies** Chris Minnick, John Paul Mueller, Luca Massaron, Stephanie Diamond, Pam Baker, Daniel Stanton, Shiv Singh, Paul Mladjenovic, Sheryl Lindsell-Roberts, Jeffrey Allan, 2025-05-15 A comprehensive roadmap to using AI in your career and in your life Artificial intelligence is everywhere Major software organizations like Microsoft Google and Apple have built AI directly into products and invited the world to become part of the AI revolution And it's impossible to use these tools to their fullest potential without understanding the basics of what AI is and what it can do Artificial Intelligence All in One For Dummies compiles insight from the expert authors of AI books in the For Dummies series to provide an easy to follow walkthrough for anyone interested in learning how to use AI You'll learn how to put artificial intelligence to work for you and your company in a wide variety of situations from creating office assistants to managing projects and marketing your products Inside the book How to prompt AI platforms like ChatGPT and Copilot while avoiding hallucinations and other bugs Strategies for adding artificial intelligence tools to your company's existing workflows to improve efficiency and generate new opportunities Techniques to improve your programming capabilities with AI or create new AI powered tools Perfect for professionals curious about the potential and pitfalls associated with generative artificial intelligence Artificial Intelligence All in One For Dummies shows you exactly how AI works and how you can apply it in your own professional and personal life **Programming Large Language Models with Azure Open AI** Francesco Esposito, 2024-04-03 Use LLMs to build better business software applications Autonomously communicate with users and optimize business tasks with applications built to make the interaction between humans and computers smooth and natural Artificial Intelligence expert Francesco Esposito illustrates several scenarios for which a LLM is effective crafting sophisticated business solutions shortening the gap between humans and software equipped machines and building powerful reasoning engines Insight into prompting and conversational programming with specific techniques for patterns and frameworks unlock how natural language can also lead to a new advanced approach to coding Concrete end to end demonstrations featuring Python and ASP.NET Core showcase versatile patterns of interaction between existing processes APIs data and human input Artificial Intelligence expert Francesco Esposito helps you Understand the history of large language models and conversational programming Apply prompting as a new way of coding Learn core prompting techniques and fundamental use cases Engineer advanced prompts including connecting LLMs to data and function calling to build reasoning engines Use natural language in code to define workflows and orchestrate existing APIs Master external LLM frameworks Evaluate responsible AI security privacy and accuracy concerns Explore the AI regulatory landscape Build and implement a personal assistant Apply a retrieval augmented generation RAG pattern to formulate responses based on a knowledge base Construct a conversational user interface For IT Professionals and Consultants For software professionals architects lead developers programmers and Machine Learning enthusiasts For anyone else interested in natural language processing or real world applications of human like language in

software *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 *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 Description RAG 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

Generative AI for Web Development Tom Auger, Emma Saroyan, 2024-11-20 Explore the world of Generative AI and understand why it matters This book is divided into two parts introducing tools such as ChatGPT DALL E and will show you how to use them to build AI powered web apps The first part of the book describes Generative AI and covers the essential models and APIs from OpenAI Legal ethical and security considerations are discussed to help you decide whether it is an appropriate tool for your projects You ll then review ChatGPT and see how to use it effectively for generating code This is followed by a review of best practices and tips and techniques for getting around the limitations of ChatGPT and other OpenAI APIs The second part of the book provides practical guide to building a series of web apps with Next js that showcase how to use the OpenAI APIs For example you ll learn how to build a Story Poetry generator a language learning app and a blog site with a custom Chatbot widget The code for the web apps is generated using ChatGPT When done with this book you ll have a clear understanding of Generative AI and be well on your way to building web applications powered by OpenAI APIs and Next js What You Will Learn Assess the legal ethical and security concerns with using Generative AI in web applications Review the latest APIs provided by OpenAI for generating text and image Use ChatGPT to generate code for web

projects as well as tips and tricks to working around the limitations Who This Book Is For Experienced web developers and software engineers who know their way around HTML CSS and JavaScript but have limited or no experience using Generative AI to build web applications *Python Machine Learning By Example* Yuxi (Hayden) Liu,2024-07-31 Author Yuxi Hayden Liu teaches machine learning from the fundamentals to building NLP transformers and multimodal models with best practice tips and real world examples using PyTorch TensorFlow scikit learn and pandas Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Discover new and updated content on NLP transformers PyTorch and computer vision modeling Includes a dedicated chapter on best practices and additional best practice tips throughout the book to improve your ML solutions Implement ML models such as neural networks and linear and logistic regression from scratch Book DescriptionThe fourth edition of Python Machine Learning By Example is a comprehensive guide for beginners and experienced machine learning practitioners who want to learn more advanced techniques such as multimodal modeling Written by experienced machine learning author and ex Google machine learning engineer Yuxi Hayden Liu this edition emphasizes best practices providing invaluable insights for machine learning engineers data scientists and analysts Explore advanced techniques including two new chapters on natural language processing transformers with BERT and GPT and multimodal computer vision models with PyTorch and Hugging Face You ll learn key modeling techniques using practical examples such as predicting stock prices and creating an image search engine This hands on machine learning book navigates through complex challenges bridging the gap between theoretical understanding and practical application Elevate your machine learning and deep learning expertise tackle intricate problems and unlock the potential of advanced techniques in machine learning with this authoritative guide What you will learn Follow machine learning best practices throughout data preparation and model development Build and improve image classifiers using convolutional neural networks CNNs and transfer learning Develop and fine tune neural networks using TensorFlow and PyTorch Analyze sequence data and make predictions using recurrent neural networks RNNs transformers and CLIP Build classifiers using support vector machines SVMs and boost performance with PCA Avoid overfitting using regularization feature selection and more Who this book is for This expanded fourth edition is ideal for data scientists ML engineers analysts and students with Python programming knowledge The real world examples best practices and code prepare anyone undertaking their first serious ML project

LLM Prompt Engineering for Developers Aymen El Amri,2024-05-23 Explore the dynamic field of LLM prompt engineering with this book Starting with fundamental NLP principles progressing to sophisticated prompt engineering methods this book serves as the perfect comprehensive guide Key Features In depth coverage of prompt engineering from basics to advanced techniques Insights into cutting edge methods like AutoCoT and transfer learning Comprehensive resource sections including prompt databases and tools Book DescriptionLLM Prompt Engineering For Developers begins by laying the groundwork with essential principles of natural language processing NLP setting the stage for more complex

topics It methodically guides readers through the initial steps of understanding how large language models work providing a solid foundation that prepares them for the more intricate aspects of prompt engineering As you proceed the book transitions into advanced strategies and techniques that reveal how to effectively interact with and utilize these powerful models From crafting precise prompts that enhance model responses to exploring innovative methods like few shot and zero shot learning this resource is designed to unlock the full potential of language model technology This book not only teaches the technical skills needed to excel in the field but also addresses the broader implications of AI technology It encourages thoughtful consideration of ethical issues and the impact of AI on society By the end of this book readers will master the technical aspects of prompt engineering appreciate the importance of responsible AI development making them well rounded professionals ready to focus on the advancement of this cutting edge technology What you will learn Understand the principles of NLP and their application in LLMs Set up and configure environments for developing with LLMs Implement few shot and zero shot learning techniques Enhance LLM outputs through AutoCoT and self consistency methods Apply transfer learning to adapt LLMs to new domains Develop practical skills in testing scoring prompt effectiveness Who this book is for The target audience for LLM Prompt Engineering For Developers includes software developers AI enthusiasts technical team leads advanced computer science students and AI researchers with a basic understanding of artificial intelligence Ideal for those looking to deepen their expertise in large language models and prompt engineering this book serves as a practical guide for integrating advanced AI driven projects and research into various workflows assuming some foundational programming knowledge and familiarity with AI concepts

Social Data Analytics in the Cloud with AI Xuebin Wei,Xinyue Ye,2024-12-30 The rise of cloud computing and Generative artificial intelligence AI has revolutionized data analytics pipelines Analysts can collect store and process vast datasets in the cloud with high availability and scalability and also leverage Generative AI to query and visualize datasets in natural languages This pioneering textbook provides a gateway for students educators and professionals to develop and enhance social data analytics capabilities with the latest cloud computing and AI technologies The textbook introduces educational cloud resources from leading technology companies begins with foundational concepts and progresses to advanced techniques Features The first textbook on cloud based social data analytics with the assistance of Generative AI Introduces educational cloud resources from leading technology companies like AWS GitHub and MongoDB Presents a fully AI powered data analytics pipeline from Python coding to data collection with APIs cloud based data storage natural language queries and interactive visualization Analyzes Census and social media data with the latest large language models LLMs Provides hands on exercises with real world datasets on timely issues This textbook is an excellent resource for upper level undergraduate and graduate students taking GIS Urban Informatics Social Science Data Analysis and Data Science courses faculty members teaching such courses and professionals and researchers interested in leveraging cloud computing and Generative AI in social data analytics

Generative AI for

Beginners: Practical Guide to ChatGPT, Machine Learning, and AI Applications Caleb Morgan Whitaker ,2025-07-07
Learn Generative AI From Zero to Real Projects with Confidence Curious about AI but overwhelmed by technical jargon
Generative AI for Beginners is your clear hands on guide to mastering ChatGPT neural networks and practical AI applications
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