



Openai Today Setup

Keith Bourne



Openai Today Setup:

Generative AI in Action Amit Bahree, 2024-11-26 Generative AI can transform your business by streamlining the process of creating text images and code This book will show you how to get in on the action Generative AI in Action is the comprehensive and concrete guide to generative AI you've been searching for It introduces both AI's fundamental principles and its practical applications in an enterprise context from generating text and images for product catalogs and marketing campaigns to technical reporting and even writing software Inside author Amit Bahree shares his experience leading Generative AI projects at Microsoft for nearly a decade starting well before the current GPT revolution Inside Generative AI in Action you will find A practical overview of of generative AI applications Architectural patterns integration guidance and best practices for generative AI The latest techniques like RAG prompt engineering and multi modality The challenges and risks of generative AI like hallucinations and jailbreaks How to integrate generative AI into your business and IT strategy Generative AI in Action is full of real world use cases for generative AI showing you where and how to start integrating this powerful technology into your products and workflows You'll benefit from tried and tested implementation advice as well as application architectures to deploy GenAI in production at enterprise scale About the technology In controlled environments deep learning systems routinely surpass humans in reading comprehension image recognition and language understanding Large Language Models LLMs can deliver similar results in text and image generation and predictive reasoning Outside the lab though generative AI can both impress and fail spectacularly So how do you get the results you want Keep reading About the book Generative AI in Action presents concrete examples insights and techniques for using LLMs and other modern AI technologies successfully and safely In it you'll find practical approaches for incorporating AI into marketing software development business report generation data storytelling and other typically human tasks You'll explore the emerging patterns for GenAI apps master best practices for prompt engineering and learn how to address hallucination high operating costs the rapid pace of change and other common problems What's inside Best practices for deploying Generative AI apps Production quality RAG Adapting GenAI models to your specific domain About the reader For enterprise architects developers and data scientists interested in upgrading their architectures with generative AI About the author Amit Bahree is Principal Group Product Manager for the Azure AI engineering team at Microsoft The technical editor on this book was Wee Hyong Tok Table of Contents Part 1 1 Introduction to generative AI 2 Introduction to large language models 3 Working through an API Generating text 4 From pixels to pictures Generating images 5 What else can AI generate Part 2 6 Guide to prompt engineering 7 Retrieval augmented generation The secret weapon 8 Chatting with your data 9 Tailoring models with model adaptation and fine tuning Part 3 10 Application architecture for generative AI apps 11 Scaling up Best practices for production deployment 12 Evaluations and benchmarks 13 Guide to ethical GenAI Principles practices and pitfalls A The book's GitHub repository B Responsible AI tools AI-Powered Coding: Use ChatGPT and AI Tools to Accelerate Your

Projects Mateo Carter Hawkins, 2025-07-01 Transform Your Development Workflow with AI Powered Coding Tired of repetitive tasks tedious debugging and slow development cycles This book empowers you to harness ChatGPT and the latest AI tools to supercharge your coding boost productivity and deliver projects faster all while improving code quality What You'll Discover Inside Fast Track Project Kickoffs Learn how to prompt ChatGPT to generate project skeletons boilerplate code and API integrations expediting what used to take hours or days Better Code Less Overhead Use AI to write review and optimize code with tools like GitHub Copilot studies show they can make developers 56% faster Debug Like a Pro Turn vague error messages into clear guidance ChatGPT assists with debugging tips stack trace interpretation and refactoring suggestions Real World Hands On Examples Get working scripts and walkthroughs using Python JavaScript and other popular languages so you learn by doing not just theorizing Collaborate Smarter Discover how AI automates code documentation peer review prompts and even helps with tech stack decisions building stronger more efficient teams Ethical Practical Guidance Navigate the line between productivity and dependency ensuring you control your code and AI remains a powerful assistant not a crutch Why This Book Is a Must Buy You want to stay ahead in a fast evolving industry Bill Gates stresses coding remains essential even in the AI era Ideal for developers across experience levels from seasoned pros wanting smarter workflows to beginners aiming to learn efficiently Fully updated for 2025's AI landscape from best practices and tool selection to ethical considerations and future readiness What You'll Gain Speed without Sacrifice Launch projects in hours not days Higher Quality Code Fewer bugs better readability and maintainability Deep Skill Growth Learn AI thinking applied to real world development Competitive Edge Stay ahead as AI tools reshape software engineering Ready to code smarter not harder Tap into the power of ChatGPT and AI tools unlock faster workflows cleaner code and deeper developer mastery Grab your copy of AI Powered Coding now and elevate your coding to the next level 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

Generative AI Apps with LangChain and Python Rabi

Jay,2024-12-26 Future proof your programming career through practical projects designed to grasp the intricacies of LangChain s components from core chains to advanced conversational agents This hands on book provides Python developers with the necessary skills to develop real world Large Language Model LLM based Generative AI applications quickly regardless of their experience level Projects throughout the book offer practical LLM solutions for common business issues such as information overload internal knowledge access and enhanced customer communication Meanwhile you ll learn how to optimize workflows enhance embedding efficiency select between vector stores and other optimizations relevant to experienced AI users The emphasis on real world applications and practical examples will enable you to customize your own projects to address pain points across various industries Developing LangChain based Generative AI LLM Apps with Python employs a focused toolkit LangChain Pinecone and Streamlit LLM integration to practically showcase how Python developers can leverage existing skills to build Generative AI solutions By addressing tangible challenges you ll learn by be doing enhancing your career possibilities in today s rapidly evolving landscape What You Will Learn Understand different types of LLMs and how to select the right ones for responsible AI Structure effective prompts Master LangChain concepts such as chains models memory and agents Apply embeddings effectively for search content comparison and understanding similarity Setup and integrate Pinecone vector database for indexing structuring data and search Build Q those seeking a structured guide to enhance their careers by learning to create robust real world LLM powered Generative AI applications data scientists analysts and experienced developers new to LLMs

Generative AI: Current Trends and Applications Khalid

Raza,Naeem Ahmad,Deepak Singh,2024-12-09 This comprehensive volume focuses on the latest advancements in Generative AI including state of the art techniques and models that are pushing the boundaries of what is possible It covers recent developments in areas such as Generative AI models transfer learning and Natural Language Processing NLP highlighting their potential to revolutionize content generation and creative applications including OpenAI LangChain NLTK and their practical implementations across diverse domains The volume provides insights into emerging research areas novel architectures and innovative approaches in Generative AI giving searchers a glimpse into the exciting future of the field The aim is to offer readers a deep understanding of Generative AI and how it can be harnessed to tackle complex real world challenges

27 AI Side Hustles You Can Start Today to Build Passive Income Streams Ashok Reddy N, Ready to earn money using Artificial Intelligence This book reveals 27 practical beginner friendly AI side hustles you can start today even if you have no coding or business background Whether you re looking for extra cash passive income or a full time online business this guide walks you step by step through real ways people are profiting with AI tools like ChatGPT Midjourney Canva Notion AI Runway and more You ll discover How to turn AI content creation into digital products that sell Ways to use AI for freelancing automation and online services Real examples of people earning from AI based side hustles The best tools websites and tips to build sustainable income streams A clear roadmap to start small and scale your earnings month by month Each hustle includes What it is and how it works Tools you ll need How to get clients or customers Potential earnings and time commitment If you ve ever thought I want to make money online but I don t know where to start This book gives you clarity direction and 27 actionable ways to begin Start your AI powered income journey today The future of work is here and it s yours to build

Chat GPT For Stay at Home Moms Adamma Mbajewke,2025-09-20 Being a stay at home mom means juggling endless responsibilities but what if you had a smart reliable helper at your side ChatGPT for Stay at Home Moms A Step by Step Guide shows you how to transform artificial intelligence into a powerful tool for your home and family Written in simple practical language this guide helps you use ChatGPT to Plan your day set reminders and organize meals with less stress Support your kids learning with homework help fun stories and interactive activities Keep the family entertained with games riddles and new hobbies Reclaim personal time through self care routines and relaxation ideas With inspiring case studies safety tips and easy step by step instructions you ll discover how ChatGPT can simplify your daily life while giving you more time for what matters most Make parenting easier smarter and more enjoyable one conversation at a time

ChatGPT eBook GURMEET SINGH DANG, [Generative AI from Beginner to Paid Professional, Part 2](#) Bolakale Aremu,2024-11-09 Unlock the Future of Generative AI and Skyrocket Your Career This book is your comprehensive roadmap from grasping the fundamentals of AI to mastering the tools and techniques that will set you apart in today s AI driven world Perfect for anyone serious about a career in AI this book bridges the gap between knowledge and action giving you the tools to earn build and innovate with generative AI technologies Whether you re building your first AI project or refining your

professional skills this is the guide you've been waiting for Packed with hands on projects and practical exercises this book empowers you to build and launch your very own generative AI solutions By the end you'll not only be equipped with in demand AI skills but also be prepared to launch your AI projects in the real world Welcome to Generative AI from Beginner to Paid Professional Part 2 Master Prompt Design Gemini Multimodal in Vertex AI Studio LangChain Launching Deploying Generative AI Projects In Part 2 of this transformative guide you'll delve deep into powerful AI frameworks and cutting edge technologies including Gemini Multimodal Vertex AI Studio and LangChain gaining the expertise needed to design custom AI solutions and deploy scalable AI projects Whether you're an aspiring professional or a seasoned developer this book is your step by step companion to navigating the evolving landscape of generative AI What You'll Learn 1 Master Prompt Design Craft perfect prompts that make your AI work for you no matter the use case 2 Gemini Multimodal Vertex AI Studio Learn to integrate multimodal models into your AI pipeline revolutionizing how you build intelligent systems that understand and generate both text and images 3 LangChain for Real World AI Projects Leverage LangChain to create robust API powered workflows that bring your AI projects to life 4 Launching Deploying AI Projects From conceptualization to deployment turn your AI ideas into real world applications with proven strategies

Data Cleaning with Power BI Gus Frazer, 2024-02-29

Unlock the full potential of your data by mastering the art of cleaning preparing and transforming data with Power BI for smarter insights and data visualizations Key Features Implement best practices for connecting preparing cleaning and analyzing multiple sources of data using Power BI Conduct exploratory data analysis EDA using DAX PowerQuery and the M language Apply your newfound knowledge to tackle common data challenges for visualizations in Power BI Purchase of the print or Kindle book includes a free PDF eBook Book Description Microsoft Power BI offers a range of powerful data cleaning and preparation options through tools such as DAX Power Query and the M language However despite its user friendly interface mastering it can be challenging Whether you're a seasoned analyst or a novice exploring the potential of Power BI this comprehensive guide equips you with techniques to transform raw data into a reliable foundation for insightful analysis and visualization This book serves as a comprehensive guide to data cleaning starting with data quality common data challenges and best practices for handling data You'll learn how to import and clean data with Query Editor and transform data using the M query language As you advance you'll explore Power BI's data modeling capabilities for efficient cleaning and establishing relationships Later chapters cover best practices for using Power Automate for data cleaning and task automation Finally you'll discover how OpenAI and ChatGPT can make data cleaning in Power BI easier By the end of the book you will have a comprehensive understanding of data cleaning concepts techniques and how to use Power BI and its tools for effective data preparation What you will learn Connect to data sources using both import and DirectQuery options Use the Query Editor to apply data transformations Transform your data using the M query language Design clean and optimized data models by creating relationships and DAX calculations Perform exploratory data analysis using Power BI

Address the most common data challenges with best practices Explore the benefits of using OpenAI ChatGPT and Microsoft Copilot for simplifying data cleaning Who this book is for If you re a data analyst business intelligence professional business analyst data scientist or anyone who works with data on a regular basis this book is for you It s a useful resource for anyone who wants to gain a deeper understanding of data quality issues and best practices for data cleaning in Power BI If you have a basic knowledge of BI tools and concepts this book will help you advance your skills in Power BI **Azure AI-102**

Certification Essentials Peter T. Lee,2025-08-14 Go beyond AI 102 certification by mastering the foundations of Azure AI concepts and services reinforced through practical labs and real world examples Key Features Solidify your understanding with targeted questions at the end of each chapter Assess your knowledge of key concepts with over 45 exam style questions complete with detailed explanations Get hands on experience with GitHub projects along with ongoing support from the author on GitHub Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionWritten by a seasoned solutions architect and Microsoft AI professional with over 25 years of IT experience Azure AI 102 Certification Essentials will help you gain the skills and knowledge needed to confidently pass the Azure AI 102 certification exam and advance your career This comprehensive guide covers all of the exam objectives from designing AI solutions to integrating AI models into Azure services By combining theoretical concepts with visual examples hands on exercises and real world use cases the chapters teach you how to effectively apply your new found knowledge The book emphasizes responsible AI practices addressing fairness reliability privacy and security while guiding you through testing AI models with diverse data and navigating legal considerations Featuring the latest Azure AI tools and technologies each chapter concludes with hands on exercises to reinforce your learning culminating in Chapter 11 s comprehensive set of 45 mock questions that simulate the actual exam and help you assess your exam readiness By the end of this book you ll be able to confidently design implement and integrate AI solutions on Azure while achieving this highly sought after certification What you will learn Learn core concepts relating to AI LLMs NLP and generative AI Build and deploy with Azure AI Foundry CI CD and containers Manage and secure Azure AI services with built in tools Apply responsible AI using Azure AI Content Safety Perform OCR and analysis with Azure AI Vision Build apps with the Azure AI Language and Speech services Explore knowledge mining with Azure AI Search and Content Understanding Implement RAG and fine tuning with Azure OpenAI Build agents using Azure AI Foundry Agent Service and Semantic Kernel Who this book is for If you re preparing for the Azure AI 102 certification exam this book is for you Developers engineers and career transitioners moving from traditional software development to AI focused roles can use this guide to deepen their understanding of AI within the Azure ecosystem This book is also beneficial for students and educators looking to apply AI ML concepts using Azure No prior experience in AI ML is required as this book provides comprehensive coverage of exam topics with detailed explanations practical examples and hands on exercises to build your confidence and expertise **Mastering AI** Jeremy Kahn,2025-07-08 A Fortune magazine journalist draws on

his expertise and extensive contacts among the companies and scientists at the forefront of artificial intelligence to offer dramatic predictions of AI's impact over the next decade from reshaping our economy and the way we work learn and create to unknitting our social fabric jeopardizing our democracy and fundamentally altering the way we think Within the next five years Jeremy Kahn predicts AI will disrupt almost every industry and enterprise with vastly increased efficiency and productivity It will restructure the workforce making AI copilots a must for every knowledge worker It will revamp education meaning children around the world can have personal portable tutors It will revolutionize health care making individualized targeted pharmaceuticals more affordable It will compel us to reimagine how we make art compose music and write and publish books The potential of generative AI to extend our skills talents and creativity as humans is undeniably exciting and promising But while this new technology has a bright future it also casts a dark and fearful shadow AI will provoke pervasive disruptive potentially devastating knock on effects Leveraging his unrivaled access to the leaders scientists futurists and others who are making AI a reality Kahn will argue that if not carefully designed and vigilantly regulated AI will deepen income inequality depressing wages while imposing winner take all markets across much of the economy AI risks undermining democracy as truth is overtaken by misinformation racial bias and harmful stereotypes Continuing a process begun by the internet AI will rewire our brains likely inhibiting our ability to think critically to remember and even to get along with one another unless we all take decisive action to prevent this from happening Much as Michael Lewis's classic *The New Thing* offered a prescient insightful and eminently readable account of life inside the dot com bubble *Mastering AI* delivers much needed guidance for anyone eager to understand the AI boom and what comes next [Unlocking Data with Generative AI and RAG](#) Keith Bourne, 2024-09-27 Leverage cutting edge generative AI techniques such as RAG to realize the potential of your data and drive innovation as well as gain strategic advantage Key Features Optimize data retrieval and generation using vector databases Boost decision making and automate workflows with AI agents Overcome common challenges in implementing real world RAG systems Purchase of the print or Kindle book includes a free PDF eBook Book Description Generative AI is helping organizations tap into their data in new ways with retrieval augmented generation RAG combining the strengths of large language models LLMs with internal data for more intelligent and relevant AI applications The author harnesses his decade of ML experience in this book to equip you with the strategic insights and technical expertise needed when using RAG to drive transformative outcomes The book explores RAG's role in enhancing organizational operations by blending theoretical foundations with practical techniques You'll work with detailed coding examples using tools such as LangChain and Chroma's vector database to gain hands on experience in integrating RAG into AI systems The chapters contain real world case studies and sample applications that highlight RAG's diverse use cases from search engines to chatbots You'll learn proven methods for managing vector databases optimizing data retrieval effective prompt engineering and quantitatively evaluating performance The book also takes you through advanced integrations of

RAG with cutting edge AI agents and emerging non LLM technologies By the end of this book you ll be able to successfully deploy RAG in business settings address common challenges and push the boundaries of what s possible with this revolutionary AI technique What you will learn Understand RAG principles and their significance in generative AI Integrate LLMs with internal data for enhanced operations Master vectorization vector databases and vector search techniques Develop skills in prompt engineering specific to RAG and design for precise AI responses Familiarize yourself with AI agents roles in facilitating sophisticated RAG applications Overcome scalability data quality and integration issues Discover strategies for optimizing data retrieval and AI interpretability Who this book is for This book is for AI researchers data scientists software developers and business analysts looking to leverage RAG and generative AI to enhance data retrieval improve AI accuracy and drive innovation It is particularly suited for anyone with a foundational understanding of AI who seeks practical hands on learning The book offers real world coding examples and strategies for implementing RAG effectively making it accessible to both technical and non technical audiences A basic understanding of Python and Jupyter Notebooks is required

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

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

Data Labeling in Machine Learning with Python Vijaya Kumar Suda, 2024-01-31

Take your data preparation machine learning and GenAI skills to the next level by learning a range of Python algorithms and tools for data labeling

Key Features

- Generate labels for regression in scenarios with limited training data
- Apply generative AI and large language models LLMs to explore and label

text data Leverage Python libraries for image video and audio data analysis and data labeling Purchase of the print or Kindle book includes a free PDF eBook Book Description Data labeling is the invisible hand that guides the power of artificial intelligence and machine learning In today s data driven world mastering data labeling is not just an advantage it s a necessity Data Labeling in Machine Learning with Python empowers you to unearth value from raw data create intelligent systems and influence the course of technological evolution With this book you ll discover the art of employing summary statistics weak supervision programmatic rules and heuristics to assign labels to unlabeled training data programmatically As you progress you ll be able to enhance your datasets by mastering the intricacies of semi supervised learning and data augmentation Venturing further into the data landscape you ll immerse yourself in the annotation of image video and audio data harnessing the power of Python libraries such as seaborn matplotlib cv2 librosa openai and langchain With hands on guidance and practical examples you ll gain proficiency in annotating diverse data types effectively By the end of this book you ll have the practical expertise to programmatically label diverse data types and enhance datasets unlocking the full potential of your data What you will learn Excel in exploratory data analysis EDA for tabular text audio video and image data Understand how to use Python libraries to apply rules to label raw data Discover data augmentation techniques for adding classification labels Leverage K means clustering to classify unsupervised data Explore how hybrid supervised learning is applied to add labels for classification Master text data classification with generative AI Detect objects and classify images with OpenCV and YOLO Uncover a range of techniques and resources for data annotation Who this book is for This book is for machine learning engineers data scientists and data engineers who want to learn data labeling methods and algorithms for model training Data enthusiasts and Python developers will be able to use this book to learn data exploration and annotation using Python libraries Basic Python knowledge is beneficial but not necessary to get started [Python GPT Cookbook](#) Dr. Neil Williams, 2025-03-19 DESCRIPTION GPT has redefined the landscape of AI enabling the creation of powerful language models capable of diverse applications The objective of the Python GPT Cookbook is to equip readers with practical recipes and foundational knowledge to build business solutions using GPT and Python The book is divided into four parts The first covers the basics the second teaches the fundamentals of NLP the third delves into applying GPT in various fields and the fourth provides a conclusion Each chapter includes recipes and practical insights to help readers deepen their understanding and apply the concepts presented This cookbook approach delivers 78 practical recipes including creating OpenAI accounts utilizing playgrounds and API keys You will learn text preprocessing embeddings fine tuning and GPT integration with Hugging Face Learn to implement GPT using PyTorch and TensorFlow convert models and build authenticated actions Applications include chatbots email summarization DBA copilots and use cases in marketing sales IP and manufacturing By the end of the book readers will have a robust understanding of GPT models and how to use them for real world NLP tasks along with the skills to continue exploring this powerful technology independently WHAT YOU WILL

LEARN Learn Python OpenAI TensorFlow Hugging Face and vector databases Master Python for NLP applications and data manipulation Understand and implement GPT models for various tasks Integrate GPT with various architectural components such as databases third party APIs servers and data pipelines Utilise NLTK PyTorch and TensorFlow for advanced NLP projects Use Jupyter for interactive coding and data analysis WHO THIS BOOK IS FOR The Python GPT Cookbook is for IT professionals and business innovators who already have basic Python skills Data scientists ML engineers NLP engineers and ML researchers will also find it useful

TABLE OF CONTENTS

- 1 Introduction to GPT
- 2 Crafting Your GPT Workspace
- 3 Pre processing
- 4 Embeddings
- 5 Classifying Intent
- 6 Hugging Face and GPT
- 7 Vector Databases
- 8 GPT PyTorch and TensorFlow
- 9 Custom GPT Actions
- 10 Integrating GPT with the Enterprise
- 11 Marketing and Sales with GPT
- 12 Intellectual Property Management with GPT
- 13 GPT in Manufacturing
- 14 Scaling up
- 15 Emerging Trends and Future Directions

Building Neo4j-Powered Applications with LLMs Ravindranatha Anthapu, Siddhant Agarwal, 2025-06-20 A comprehensive guide to building cutting edge generative AI applications using Neo4j's knowledge graphs and vector search capabilities

Key Features

- Design vector search and recommendation systems with LLMs using Neo4j GenAI Haystack Spring AI and LangChain4j
- Apply best practices for graph exploration modeling reasoning and performance optimization
- Build and consume Neo4j knowledge graphs and deploy your GenAI apps to Google Cloud

Purchase of the print or Kindle book includes a free PDF eBook

Book Description

Embark on an expert led journey into building LLM powered applications using Retrieval Augmented Generation RAG and Neo4j knowledge graphs

Written by Ravindranatha Anthapu Principal Consultant at Neo4j and Siddhant Agrawal a Google Developer Expert in GenAI this comprehensive guide is your starting point for exploring alternatives to LangChain covering frameworks such as Haystack Spring AI and LangChain4j

As LLMs large language models reshape how businesses interact with customers this book helps you develop intelligent applications using RAG architecture and knowledge graphs with a strong focus on overcoming one of AI's most persistent challenges mitigating hallucinations

You'll learn how to model and construct Neo4j knowledge graphs with Cypher to enhance the accuracy and relevance of LLM responses

Through real world use cases like vector powered search and personalized recommendations the authors help you build hands on experience with Neo4j GenAI integrations across Haystack and Spring AI

With access to a companion GitHub repository you'll work through code heavy examples to confidently build and deploy GenAI apps on Google Cloud

By the end of this book you'll have the skills to ground LLMs with RAG and Neo4j optimize graph performance and strategically select the right cloud platform for your GenAI applications

What you will learn

- Design populate and integrate a Neo4j knowledge graph with RAG
- Model data for knowledge graphs
- Integrate AI powered search to enhance knowledge exploration
- Maintain and monitor your AI search application with Haystack
- Use LangChain4j and Spring AI for recommendations and personalization

Seamlessly deploy your applications to Google Cloud Platform

Who this book is for

This LLM book is for database developers and data scientists who want to leverage knowledge graphs with Neo4j and its vector search capabilities to build intelligent search

and recommendation systems Working knowledge of Python and Java is essential to follow along Familiarity with Neo4j the Cypher query language and fundamental concepts of databases will come in handy [The MCP Playbook](#) Gavin Dex Thorne,2025-06-15 Transform Your PC Into a Smart Automated Powerhouse Step into the future of personal computing with a comprehensive guide that arms you with the skills to harness AI agents and revolutionize your desktop experience Whether you re a developer tech enthusiast or productivity seeker this book unveils the secrets behind making your computer work smarter not harder Picture automating complex tasks across multiple applications effortlessly from managing emails and calendars to orchestrating creative projects in Photoshop Blender or even Excel spreadsheets Dive deep into the mechanics of the Model Context Protocol MCP the groundbreaking framework that allows language models like Claude GPT and Ollama to seamlessly control your PC s software ecosystem No more tedious manual clicks or repetitive chores just smooth intelligent automation tailored to your needs Learn how to set up your environment for flawless AI integration build your first workflows that respond to natural language prompts and master advanced prompt engineering techniques to handle error cases and optimize performance Explore the delicate balance between cloud powered AI and local models ensuring privacy and efficiency in your automated routines You ll also discover how to add voice control customize MCP for specialized applications and maintain robust security practices while automating your digital workspace Featuring real world case studies troubleshooting tips and ethical insights this book offers a rich practical roadmap for anyone eager to enhance their productivity and creativity through AI driven desktop automation Take control of your PC like never before and embrace an intelligent hands free computing era

ChatGPT for Cybersecurity Cookbook Clint Bodungen,2024-03-29 Master ChatGPT and the OpenAI API and harness the power of cutting edge generative AI and large language models to revolutionize the way you perform penetration testing threat detection and risk assessment Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Enhance your skills by leveraging ChatGPT to generate complex commands write code and create tools Automate penetration testing risk assessment and threat detection tasks using the OpenAI API and Python programming Revolutionize your approach to cybersecurity with an AI powered toolkit Book DescriptionAre you ready to unleash the potential of AI driven cybersecurity This cookbook takes you on a journey toward enhancing your cybersecurity skills whether you re a novice or a seasoned professional By leveraging cutting edge generative AI and large language models such as ChatGPT you ll gain a competitive advantage in the ever evolving cybersecurity landscape ChatGPT for Cybersecurity Cookbook shows you how to automate and optimize various cybersecurity tasks including penetration testing vulnerability assessments risk assessment and threat detection Each recipe demonstrates step by step how to utilize ChatGPT and the OpenAI API to generate complex commands write code and even create complete tools You ll discover how AI powered cybersecurity can revolutionize your approach to security providing you with new strategies and techniques for tackling challenges As you progress you ll dive into detailed recipes covering

attack vector automation vulnerability scanning GPT assisted code analysis and more By learning to harness the power of generative AI you ll not only expand your skillset but also increase your efficiency By the end of this cybersecurity book you ll have the confidence and knowledge you need to stay ahead of the curve mastering the latest generative AI tools and techniques in cybersecurity What you will learn Master ChatGPT prompt engineering for complex cybersecurity tasks Use the OpenAI API to enhance and automate penetration testing Implement artificial intelligence driven vulnerability assessments and risk analyses Automate threat detection with the OpenAI API Develop custom AI enhanced cybersecurity tools and scripts Perform AI powered cybersecurity training and exercises Optimize cybersecurity workflows using generative AI powered techniques Who this book is for This book is for cybersecurity professionals IT experts and enthusiasts looking to harness the power of ChatGPT and the OpenAI API in their cybersecurity operations Whether you re a red teamer blue teamer or security researcher this book will help you revolutionize your approach to cybersecurity with generative AI powered techniques A basic understanding of cybersecurity concepts along with familiarity in Python programming is expected Experience with command line tools and basic knowledge of networking concepts and web technologies is also required

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Table of Contents Openai Today Setup

1. Understanding the eBook Openai Today Setup
 - The Rise of Digital Reading Openai Today Setup
 - Advantages of eBooks Over Traditional Books
2. Identifying Openai Today Setup
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Openai Today Setup
 - User-Friendly Interface
4. Exploring eBook Recommendations from Openai Today Setup
 - Personalized Recommendations

- Openai Today Setup User Reviews and Ratings
- Openai Today Setup and Bestseller Lists
- 5. Accessing Openai Today Setup Free and Paid eBooks
 - Openai Today Setup Public Domain eBooks
 - Openai Today Setup eBook Subscription Services
 - Openai Today Setup Budget-Friendly Options
- 6. Navigating Openai Today Setup eBook Formats
 - ePub, PDF, MOBI, and More
 - Openai Today Setup Compatibility with Devices
 - Openai Today Setup Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Openai Today Setup
 - Highlighting and Note-Taking Openai Today Setup
 - Interactive Elements Openai Today Setup
- 8. Staying Engaged with Openai Today Setup
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Openai Today Setup
- 9. Balancing eBooks and Physical Books Openai Today Setup
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Openai Today Setup
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Openai Today Setup
 - Setting Reading Goals Openai Today Setup
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Openai Today Setup
 - Fact-Checking eBook Content of Openai Today Setup

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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