



## Project Settings

General

Database

API

Auth

Storage

Billing

Subscription

Usage

Invoices

## Project Settings

### General settings

Project name

Integrate OpenAI

Reference ID

■ ■ ■ ■ ■

Copy

Cancel

Save

## Infrastructure

Configuration

# Openai How To Setup

**Clint Bodungen**



## Openai How To Setup:

**Mastering OpenAI for Enterprise: Unlock the Power of OpenAI to Build Intelligent Applications for Businesses with GPT, DALL-E, RAG, and AI Agents** Sriram Subramanian, 2025-03-11 Master OpenAI and Unlock the Future of AI Powered Innovation Key Features In depth exploration of OpenAI tools models and enterprise use cases Hands on projects with extensive code samples for practical learning Real world case studies with ethical AI insights and best practices Book Description OpenAI is transforming industries with cutting edge AI models redefining how businesses operate innovate and compete Mastering OpenAI for Enterprise is your definitive guide to harnessing the power of OpenAI s groundbreaking technologies including GPT models DALL E and more Designed for AI engineers developers and business leaders this book offers an in depth understanding of OpenAI s tools and their real world applications in enterprise settings This hands on guide provides a structured learning path featuring practical code samples step by step implementations and industry case studies that bridge theory with practice Whether you re building intelligent chatbots leveraging AI for automation or exploring generative AI for creative solutions this book equips you with the knowledge and skills to seamlessly integrate OpenAI into your workflows Ethical AI development and responsible implementation are also key themes ensuring that innovation is balanced with accountability As AI continues to evolve at an unprecedented pace mastering OpenAI is no longer optional it s essential The future belongs to those who can effectively leverage these technologies Don t get left behind equip yourself with the expertise needed to stay ahead in the AI revolution What you will learn Gain expertise in OpenAI s models APIs and enterprise applications Build intelligent chatbots and virtual assistants using ChatGPT Implement ethical AI practices for responsible and fair deployment Optimize and deploy OpenAI models for scalable business solutions Analyze real world case studies to drive AI powered innovation Leverage generative AI to automate enhance and transform workflows

*Build a Website with ChatGPT* Paul McFedries, 2024-10-01 Create a portfolio of cool and creative websites all without having to write your own code Build a Website with ChatGPT teaches you zero coding web development utilizing powerful generative AI tools like ChatGPT If you can open a web browser you re ready to start building absolutely no coding experience required Inside Build a Website with ChatGPT you ll learn the important skills of AI assisted web programming such as Crafting effective prompts to generate HTML CSS and JavaScript Converting text into images with DALL E integration Building navigation bars image galleries and contact forms Deploying fully functional sites to the web for free Customizing the generated code for unique sites Inside Build a Website with ChatGPT you ll learn the high level coding concepts that let you check and perfect AI output prompting skills that deliver the exact code you need and how to properly deploy your site to the web for free Annotated code samples and advice on code customization give you the perfect balance of understanding and convenience Plus you ll get access to a tried and tested repository of prompts and working code About the technology You can build amazing websites even if you don t know HTML CSS and JavaScript Just describe what you want in

plain English and let ChatGPT take care of the gnarly details This book guides you step by step as you create user friendly forms interesting graphics and interactive web pages using nothing but AI and your imagination About the book Build a Website with ChatGPT shows you how to make websites in an AI first world no experience required You ll start with the basics of generating pages with ChatGPT and by the end of the second chapter your first site will be up and running Author Paul McFedries then shows you how to add interesting text and graphics forms for user input and even custom CSS to give your pages some pizzazz As you go you ll expand your new AI skills to create photo galleries portfolios catalog pages and more What s inside Writing effective prompts to create code text and graphics Adding navigation bars image galleries and contact forms Deploying your sites to the web for free Adding your unique touches to AI generated pages About the reader No experience with web development or programming required If you can create a Word document you can build a website About the author Paul McFedries has written over 100 books on web development and other technology topics including Web Design Playground Manning Publications The technical editor on this book was Anirudh V Prabhu Table of Contents 1 Introducing website creation with ChatGPT 2 Creating and deploying your first web page 3 Working with fonts colors and headings 4 Adding structure to a page 5 Publishing page posts 6 Adding links and navigation 7 Creating site content 8 Generating site forms 9 Adding lists to your pages 10 Setting up a photo gallery 11 Creating a portfolio page 12 Building an article page 13 Coding an interactive course catalog A Getting ready to build web pages with ChatGPT B Deploying your site C Learning a few ChatGPT best practices      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      **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      [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 *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 LLM Ops 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

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*Microsoft Outlook Guide to Success* Kevin Pitch, Struggling with a chaotic inbox and disorganized calendar Want to enhance your productivity but feel held back by Microsoft Outlook s complexity Searching for a step by step guide to navigate through Outlook with ease and efficiency Dive deep into the functionalities of Microsoft Outlook and seamlessly incorporate e mail practices and calendar management into your daily routine irrespective of your current level of expertise Elevate your skills QUICK EFFORTLESS LEARNING Engage with easy to follow instructions and insightful screenshots mastering Outlook s features swiftly with no fuss COVERING THE BASICS TO ADVANCED This guide is for everyone Novices and seasoned users alike will discover valuable insights from crafting and organizing emails to optimizing tasks all explained with clarity and precision REDUCE TIME AND STRESS Adopt intelligent practices and strategies detailed in the guide to minimize the time and stress associated with managing emails and schedules What you will learn COMMAND YOUR INBOX

Transform your inbox from a daunting mess into a streamlined hub of productivity with detailed visual step by step instructions and screenshots **MASTER YOUR CALENDAR** Understand the ins and outs of the Outlook Calendar schedule like a pro and never miss an important appointment again **EXPLORE HIDDEN GEMS** Uncover less known yet powerful features learn to automate email handling and discover functionalities even experienced users might not know **ACCESS ANYWHERE** Learn how to synchronize your Outlook data across different devices for easy access anytime anywhere **FROM BEGINNER TO EXPERT** Navigate through the learning curve smoothly and become the Outlook expert everyone turns to in the office Ready for a transformative journey towards Outlook mastery and enhanced professional efficiency Click Buy Now and let's get started on your email challenge

**CHATGPT AUTOMATION WITH PYTHON** Vance Pike, 2025-07-20 Discover how to combine the power of Python and ChatGPT to streamline tasks boost productivity and save valuable time even if you're not an expert This concise hands on guide helps you set up the OpenAI API and start automating practical real life workflows with working Python scripts From content generation to document summarization you'll learn how to write code that actually does something useful Inside you'll learn how to

- Write automatic replies for emails and messages
- Summarize long PDFs and text documents with just a few lines of code
- Dynamically generate content like blog posts or captions
- Create a reusable script template to automate new tasks quickly
- Handle API errors and troubleshoot basic issues

Whether you're a beginner with basic Python skills or a freelancer looking to work smarter this book shows you how to get results fast Perfect for Python learners ready to try something useful Developers curious about AI integration Busy creators and freelancers looking to save time Skip the fluff Learn by doing In less than 90 minutes you'll be automating tasks using real usable Python code

*AI SuperPower A Comprehensive Guide to Integrating Unity and ChatGPT* Aiden Evans, 2023-08-31 Imagine a world where you could build interactive environments and create dynamic immersive dialogues within those environments A world where artificial intelligence serves as a companion guide or even adversary in a virtual landscape This is the world that integrating Unity and ChatGPT can create Are you tired of static predictable interactions in your games or simulations Do you wish to captivate your audience with engaging dialogues and lifelike characters that respond intelligently to their actions Are you struggling to find a user friendly solution that allows you to leverage the power of artificial intelligence without requiring extensive programming skills Do you want to take your game design and AI knowledge to the next level and explore cutting edge technologies that can revolutionize the way you create interactive experiences Look no further *Unifying Conversations A Comprehensive Guide to Integrating Unity and ChatGPT* is here to transform your creative endeavors This book provides a step by step guide to integrating Unity and ChatGPT empowering you to build captivating immersive worlds filled with dynamic dialogues You will gain the following benefits

- Enhanced Interactivity Discover how to create interactive dialogues within games or simulations breathing life into your characters and engaging players on a whole new level
- Seamless Integration Learn how to seamlessly integrate ChatGPT a state of the art language model with Unity's powerful

game engine leveraging the strengths of both technologies to unlock unlimited creative possibilities

**Personalized Experiences** Harness the capabilities of ChatGPT to generate contextually relevant responses adapting to players choices and creating personalized experiences that keep them coming back for more

**Advanced Techniques** Dive into advanced techniques for maximizing the potential of Unity and ChatGPT integration from designing branching dialogues to creating dynamic narratives that adapt to player input

**Real World Case Studies** Explore real world applications of Unity and ChatGPT integration drawing inspiration from successful projects that have revolutionized the gaming industry

**Future Trends and Ethical Considerations** Stay ahead of the curve by gaining insights into the future trends of AI in gaming and understanding the ethical considerations associated with AI driven interactive experiences

By the end of this comprehensive guide you will be equipped with the knowledge and skills to bring your ideas to life whether you re a seasoned developer or a beginner eager to delve into the world of game design and AI

Don t miss out on this opportunity to transform your creations into immersive and interactive experiences

Grab your copy of *Unifying Conversations A Comprehensive Guide to Integrating Unity and ChatGPT* today and unlock the power of Unity and ChatGPT integration

Our journey into the world of Unity and ChatGPT integration begins now

Let s start exploring *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

*Building AI Applications with Microsoft Semantic Kernel* Lucas A. Meyer,2024-06-21

Unlock the power of GenAI by effortlessly linking your C and Python apps with cutting edge

models orchestrating diverse AI services with finesse and crafting bespoke applications through immersive real world examples

**Key Features**

- Link your C and Python applications with the latest AI models from OpenAI
- Combine and orchestrate different AI services such as text and image generators
- Create your own AI apps with real world use case examples that show you how to use basic generative AI
- create images
- process documents
- use a vector database

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

**Book Description**

In the fast paced world of AI developers are constantly seeking efficient ways to integrate AI capabilities into their apps Microsoft Semantic Kernel simplifies this process by using the GenAI features from Microsoft and OpenAI

Written by Lucas A Meyer a Principal Research Scientist in Microsoft s AI for Good Lab this book helps you get hands on with Semantic Kernel It begins by introducing you to different generative AI services such as GPT 3 5 and GPT 4 demonstrating their integration with Semantic Kernel You ll then learn to craft prompt templates for reuse across various AI services and variables

Next you ll learn how to add functionality to Semantic Kernel by creating your own plugins

The second part of the book shows you how to combine multiple plugins to execute complex actions and how to let Semantic Kernel use its own AI to solve complex problems by calling plugins including the ones made by you

The book concludes by teaching you how to use vector databases to expand the memory of your AI services and how to help AI remember the context of earlier requests

You ll also be guided through several real world examples of applications such as RAG and custom GPT agents

By the end of this book you ll have gained the knowledge you need to start using Semantic Kernel to add AI capabilities to your applications

**What you will learn**

- Write reusable AI prompts and connect to different AI providers
- Create new plugins that extend the capabilities of AI services
- Understand how to combine multiple plugins to execute complex actions
- Orchestrate multiple AI services to accomplish a task
- Leverage the powerful planner to automatically create appropriate AI calls
- Use vector databases as additional memory for your AI tasks
- Deploy your application to ChatGPT making it available to hundreds of millions of users

**Who this book is for**

This book is for beginner level to experienced NET or Python software developers who want to quickly incorporate the latest AI technologies into their applications without having to learn the details of every new AI service

Product managers with some development experience will find this book helpful while creating proof of concept applications

This book requires working knowledge of programming basics

**AI-assisted Programming for Web and Machine Learning** Dr. Muralidhar Kurni, 2025-10-08

**DESCRIPTION**

Artificial intelligence is redefining how software is created enabling developers to code faster improve accuracy and bring innovative ideas to life

In today s competitive technology landscape AI assisted programming is no longer optional it s a core skill for building modern web applications and machine learning solutions

This book systematically guides you through the whole development cycle

You will start with the foundations of understanding AI assisted programming setting up your environment and mastering prompt engineering

You will then discover how AI can accelerate front end and back end web development enhance debugging and optimize performance

You will also explore data preprocessing model

creation training and deploying optimized solutions with the help of real world examples case studies and hands on exercises ensuring you can apply every concept in practice Also by mastering prompt engineering you will be able to generate debug and optimize code across both these high demand fields By the end of this book you will have the confidence and skills to integrate AI into your workflow automate time consuming tasks build intelligent applications and deliver impactful future ready solutions

**WHAT YOU WILL LEARN** Apply prompt engineering effectively for web and ML projects Develop AI powered front end and back end applications efficiently Automate debugging testing and performance optimization with AI Integrate AI tools seamlessly into full stack development workflows Train fine tune and deploy scalable ML models in the cloud Understand AI assisted programming concepts and set up development tools Preprocess data and create AI driven machine learning pipelines

**WHO THIS BOOK IS FOR** This book is for learners who want to explore the power of AI assisted programming in web development and machine learning Software engineers web developers and data scientists who possess foundational programming skills ideally with Python or JavaScript can also use it to upgrade their skills

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**Generative AI with LangChain** Ben Auffarth, Leonid Kuligin, 2025-05-23 Go beyond foundational LangChain documentation with detailed coverage of LangGraph interfaces design patterns for building AI agents and scalable architectures used in production ideal for Python developers building GenAI applications

**Key Features** Bridge the gap between prototype and production with robust LangGraph agent architectures Apply enterprise grade practices for testing observability and monitoring Build specialized agents for software development and data analysis

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

**Book Description** This second edition tackles the biggest challenge facing companies in AI today moving from prototypes to production Fully updated to reflect the latest developments in the LangChain ecosystem it captures how modern AI systems are developed deployed and scaled in enterprise environments This edition places a strong focus on multi agent architectures robust LangGraph workflows and advanced retrieval augmented generation RAG pipelines You ll explore design patterns for building agentic systems with practical implementations of multi agent setups for complex tasks The book guides you through reasoning techniques such as Tree of Thoughts structured generation and agent handoffs complete with error handling examples Expanded chapters on testing evaluation and deployment address the demands of modern LLM applications showing you how to design secure compliant AI systems with built in safeguards and responsible development principles This edition also expands RAG coverage with guidance on hybrid search re ranking and fact checking pipelines to enhance output accuracy Whether you re extending existing workflows or architecting multi agent systems from scratch this book provides the technical depth and practical instruction needed to

design LLM applications ready for success in production environments What you will learn Design and implement multi agent systems using LangGraph Implement testing strategies that identify issues before deployment Deploy observability and monitoring solutions for production environments Build agentic RAG systems with re ranking capabilities Architect scalable production ready AI agents using LangGraph and MCP Work with the latest LLMs and providers like Google Gemini Anthropic Mistral DeepSeek and OpenAI s o3 mini Design secure compliant AI systems aligned with modern ethical practices Who this book is for This book is for developers researchers and anyone looking to learn more about LangChain and LangGraph With a strong emphasis on enterprise deployment patterns it s especially valuable for teams implementing LLM solutions at scale While the first edition focused on individual developers this updated edition expands its reach to support engineering teams and decision makers working on enterprise scale LLM strategies A basic understanding of Python is required and familiarity with machine learning will help you get the most out of this book [Hands-On Salesforce Data Cloud](#) Joyce Kay Avila,2024-08-09 Learn how to implement and manage a modern customer data platform CDP through the Salesforce Data Cloud platform This practical book provides a comprehensive overview that shows architects administrators developers data engineers and marketers how to ingest store and manage real time customer data Author Joyce Kay Avila demonstrates how to use Salesforce s native connectors canonical data model and Einstein s built in trust layer to accelerate your time to value You ll learn how to leverage Salesforce s low code no code functionality to expertly build a Data Cloud foundation that unlocks the power of structured and unstructured data Use Data Cloud tools to build your own predictive models or leverage third party machine learning platforms like Amazon SageMaker Google Vertex AI and Databricks This book will help you Develop a plan to execute a CDP project effectively and efficiently Connect Data Cloud to external data sources and build out a Customer 360 Data Model Leverage data sharing capabilities with Snowflake BigQuery Databricks and Azure Use Salesforce Data Cloud capabilities for identity resolution and segmentation Create calculated streaming visualization and predictive insights Use Data Graphs to power Salesforce Einstein capabilities Learn Data Cloud best practices for all phases of the development lifecycle **Beginning Spring AI** Andrew Lombardi,Joseph Ottinger,2025-03-24 Discover how to use Large Language Models in the Spring Framework This quick guide equips developers with insights into the strengths and limitations of Spring AI and how to leverage the model for typical use cases First you will orient yourself to the new and exciting landscape of AI and Spring integration You will learn how to issue simple queries asking the right questions to get the results you want From there you will be empowered to select the right model for functionality and refinement building a simple yet effective chat bot using real world examples Additionally the book explores how to generate images refine them and how to send source images when appropriate Lastly the book focuses on how Spring AI and LLMs affect the developer landscape including pitfalls and ethical concerns Designed for fast adoption this book provides targeted guidance on integrating AI and LLMs into your projects within days Through a pragmatic approach it emphasizes direct

utilization of the API What You Will Learn Explore popular use cases for LLMs Gain insight into the Spring AI module including its capabilities and limitations Know how to create effective queries and interactions for AI driven conversations and image generation Discover strategies for selecting an appropriate LLM service and model Acquire skills to AI proof your job and understand why it is NOT a replacement What This Book Is Spring developers who are new to AI and focused on the essentials without exhaustive framework details This is an optional supplement to the more comprehensive Apress book Beginning Spring 6

Developing Apps with GPT-4 and ChatGPT Olivier Caelen, Marie-Alice Blete, 2023-08-29 This minibook is a comprehensive guide for Python developers who want to learn how to build applications with large language models Authors Olivier Caelen and Marie Alice Blete cover the main features and benefits of GPT 4 and ChatGPT and explain how they work You ll also get a step by step guide for developing applications using the GPT 4 and ChatGPT Python library including text generation Q A and content summarization tools Written in clear and concise language Developing Apps with GPT 4 and ChatGPT includes easy to follow examples to help you understand and apply the concepts to your projects Python code examples are available in a GitHub repository and the book includes a glossary of key terms Ready to harness the power of large language models in your applications This book is a must You ll learn The fundamentals and benefits of ChatGPT and GPT 4 and how they work How to integrate these models into Python based applications for NLP tasks How to develop applications using GPT 4 or ChatGPT APIs in Python for text generation question answering and content summarization among other tasks Advanced GPT topics including prompt engineering fine tuning models for specific tasks plug ins LangChain and more

Building Intelligent Apps with .NET and Azure AI Services Ashirwad Satapathi, 2024-08-31 This comprehensive book equips you with the knowledge and skills you need to develop intelligent solutions by leveraging the capabilities of Azure AI Services The book adopts a practical and example based approach to help you easily grasp the subject matter and apply it effectively The book begins by covering essential topics that lay the foundation for understanding Azure AI Services You will know how to provision Azure AI Services and seamlessly integrate them into your NET applications Through detailed and illustrative examples you will be guided step by step in building intelligent solutions that target a range of platforms In addition to the core concepts the book delves into various AI services offering practical guidance on building solutions for a wide array of scenarios From text translation to image classification you will learn how to harness the power of Azure AI Services to solve complex problems The book presents near production scenarios and includes carefully crafted lab exercises to provide you with a hands on learning experience What You Will Learn Understand various Azure AI services required to build intelligent apps Perform language based document classification with Azure AI Language Service Build a multi language text translator app with NET MAUI Integrate GenAI capabilities to your applications by leveraging Azure OpenAI Who This Book Is For Developers cloud architects and tech enthusiasts looking forward to building scalable and intelligent solutions using Azure AI Services and NET

**Augmented Cognition** Dylan D.

Schmorrow, Cali M. Fidopiastis, 2025-05-29 The two volume set LNAI 15778 and LNAI 15779 constitutes the refereed proceedings of the 19th International Conference on Augmented Cognition AC 2025 held as part of the 27th HCI International Conference HCII 2025 which took place in Gothenburg Sweden June 22 27 2025 The total of 1430 papers and 355 posters included in the HCII 2025 proceedings was carefully reviewed and selected from 7972 submissions The papers have been organized in topical sections as follows Part I Neurotechnology and eye tracking in augmented cognition augmented cognition and user experience Part II Emotions in augmented cognition enhancing learning and memory

*Hands-On ROS for Robotics Programming* Bernardo Ronquillo Japón, 2020-02-26 Take your ROS skills to the next level by implementing complex robot structures in a ROS simulation Key Features Learn fundamental ROS concepts and apply them to solve navigation tasks Work with single board computers to program smart behavior in mobile robots Understand how specific characteristics of the physical environment influence your robot's performance Book Description Connecting a physical robot to a robot simulation using the Robot Operating System ROS infrastructure is one of the most common challenges faced by ROS engineers With this book you'll learn how to simulate a robot in a virtual environment and achieve desired behavior in equivalent real world scenarios This book starts with an introduction to GoPiGo3 and the sensors and actuators with which it is equipped You'll then work with GoPiGo3's digital twin by creating a 3D model from scratch and running a simulation in ROS using Gazebo Next the book will show you how to use GoPiGo3 to build and run an autonomous mobile robot that is aware of its surroundings Finally you'll find out how a robot can learn tasks that have not been programmed in the code but are acquired by observing its environment You'll even cover topics such as deep learning and reinforcement learning By the end of this robot programming book you'll be well versed with the basics of building specific purpose applications in robotics and developing highly intelligent autonomous robots from scratch What you will learn Get to grips with developing environment aware robots Gain insights into how your robots will react in physical environments Break down a desired behavior into a chain of robot actions Relate data from sensors with context to produce adaptive responses Apply reinforcement learning to allow your robot to learn by trial and error Implement deep learning to enable your robot to recognize its surroundings Who this book is for If you are an engineer looking to build AI powered robots using the ROS framework this book is for you Robotics enthusiasts and hobbyists who want to develop their own ROS robotics projects will also find this book useful Knowledge of Python and/or C programming and familiarity with single board computers such as Raspberry Pi is necessary to get the most out of this book *Python Machine Learning By Example* Yuxi (Hayden)

Liu, 2020-10-30 A comprehensive guide to get you up to speed with the latest developments of practical machine learning with Python and upgrade your understanding of machine learning ML algorithms and techniques Key Features Dive into machine learning algorithms to solve the complex challenges faced by data scientists today Explore cutting edge content reflecting deep learning and reinforcement learning developments Use updated Python libraries such as TensorFlow PyTorch

and scikit learn to track machine learning projects end to end

**Book Description** Python Machine Learning By Example Third Edition serves as a comprehensive gateway into the world of machine learning ML With six new chapters on topics including movie recommendation engine development with Na ve Bayes recognizing faces with support vector machine predicting stock prices with artificial neural networks categorizing images of clothing with convolutional neural networks predicting with sequences using recurring neural networks and leveraging reinforcement learning for making decisions the book has been considerably updated for the latest enterprise requirements At the same time this book provides actionable insights on the key fundamentals of ML with Python programming Hayden applies his expertise to demonstrate implementations of algorithms in Python both from scratch and with libraries Each chapter walks through an industry adopted application With the help of realistic examples you will gain an understanding of the mechanics of ML techniques in areas such as exploratory data analysis feature engineering classification regression clustering and NLP By the end of this ML Python book you will have gained a broad picture of the ML ecosystem and will be well versed in the best practices of applying ML techniques to solve problems

**What you will learn** Understand the important concepts in ML and data science Use Python to explore the world of data mining and analytics Scale up model training using varied data complexities with Apache Spark Delve deep into text analysis and NLP using Python libraries such as NLTK and Gensim Select and build an ML model and evaluate and optimize its performance Implement ML algorithms from scratch in Python TensorFlow 2 PyTorch and scikit learn

**Who this book is for** If you re a machine learning enthusiast data analyst or data engineer highly passionate about machine learning and want to begin working on machine learning assignments this book is for you Prior knowledge of Python coding is assumed and basic familiarity with statistical concepts will be beneficial although this is not necessary

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