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PHP 8 Objects, Patterns, and Practice: Volume 2 Matt Zandstra,2025-07-21 Continue to develop elegant and rock solid systems using PHP With a focus on mastering essential development tools and applying best practices Volume 2 of this 7th edition has been fully updated for PHP 8 3 and the most recent stable iterations of all tools and processes It includes entirely new chapters covering Docker Ansible refactoring tools and PHP on the command line The volume also reintroduces a chapter on inline documentation and extends its coverage of continuous integration to include GitHub Actions This book builds on the solid grounding provided by Volume 1 to cover the tools and practices needed to develop test and deploy robust code You ll see how to manage multiple developers and releases with git create development environments and deploy Composer to leverage thousands of tools and libraries and manage dependencies You ll also explore strategies for automated testing and continuous integration and learn essential techniques for deploying your code using Git and Ansible After reading and using this book you will have mastered a toolset that can support the entire lifecycle of a PHP project from the creation of a flexible development environment through collaboration the use of standards based best practice and documentation to testing and deployment across multiple production servers You Will Learn To Master the tools and strategies for testing new code and techniques for testing legacy projects Create inline documentation for use by team members users and tools such as IDEs Work with Selenium to test web interfaces Manage your code and collaborate with your team using Git Leverage continuous integration to build rock solid systems Deploy your system and securely manage your project s configuration with Ansible Who This Book Is For Anyone with at least a basic knowledge of PHP who wants to learn about the practices and tools that can make projects safe elegant and stable   ChatGPT for Software Developers Jade Summers, Unlock the Future of Software Development with AI Dive into the revolutionary world of AI powered coding with ChatGPT for Software Developers Enhancing Productivity and Innovation with AI This comprehensive guide explores how ChatGPT an advanced AI language model developed by OpenAI can transform your software development practices From optimizing workflows to generating code this book offers actionable insights to elevate your productivity and innovation Highlights Code Generation Learn how to describe functions and algorithms in natural language and let ChatGPT do the heavy lifting Bug Fixing Expedite the debugging process with AI assisted error diagnosis and correction Documentation Automation Maintain up to date and comprehensive documentation effortlessly Algorithm Suggestions Get tailored algorithmic solutions for complex problems Real world Examples Discover how leading tech companies integrate ChatGPT into their development workflows Unleash the power of AI and stay ahead in the rapidly evolving field of software development Get your copy now and revolutionize your coding experience   Transformers for Natural Language Processing and Computer Vision Denis Rothman,2024-02-29 The definitive guide to LLMs from architectures pretraining and fine tuning to Retrieval Augmented Generation RAG multimodal AI risk mitigation and practical implementations with ChatGPT Hugging Face and Vertex AI Get With Your Book PDF Copy AI

Assistant and Next Gen Reader Free Key Features Compare and contrast 20 models including GPT BERT and Llama and multiple platforms and libraries to find the right solution for your project Apply RAG with LLMs using customized texts and embeddings Mitigate LLM risks such as hallucinations using moderation models and knowledge bases Book DescriptionTransformers for Natural Language Processing and Computer Vision Third Edition explores Large Language Model LLM architectures practical applications and popular platforms Hugging Face OpenAI and Google Vertex AI used for Natural Language Processing NLP and Computer Vision CV The book guides you through a range of transformer architectures from foundation models and generative AI You ll pretrain and fine tune LLMs and work through different use cases from summarization to question answering systems leveraging embedding based search You ll also implement Retrieval Augmented Generation RAG to enhance accuracy and gain greater control over your LLM outputs Additionally you ll understand common LLM risks such as hallucinations memorization and privacy issues and implement mitigation strategies using moderation models alongside rule based systems and knowledge integration Dive into generative vision transformers and multimodal architectures and build practical applications such as image and video classification Go further and combine different models and platforms to build AI solutions and explore AI agent capabilities This book provides you with an understanding of transformer architectures including strategies for pretraining fine tuning and LLM best practices What you will learn Breakdown and understand the architectures of the Transformer BERT GPT T5 PaLM ViT CLIP and DALL E Fine tune BERT GPT and PaLM models Learn about different tokenizers and the best practices for preprocessing language data Pretrain a RoBERTa model from scratch Implement retrieval augmented generation and rules bases to mitigate hallucinations Visualize transformer model activity for deeper insights using BertViz LIME and SHAP Go in depth into vision transformers with CLIP DALL E and GPT Who this book is for This book is ideal for NLP and CV engineers data scientists machine learning practitioners software developers and technical leaders looking to advance their expertise in LLMs and generative AI or explore latest industry trends Familiarity with Python and basic machine learning concepts will help you fully understand the use cases and code examples However hands on examples involving LLM user interfaces prompt engineering and no code model building ensure this book remains accessible to anyone curious about the AI revolution

   Large Language Models Projects Pere Martra,2024-09-18 This book offers you a hands on experience using models from OpenAI and the Hugging Face library You will use various tools and work on small projects gradually applying the new knowledge you gain The book is divided into three parts Part one covers techniques and libraries Here you ll explore different techniques through small examples preparing to build projects in the next section You ll learn to use common libraries in the world of Large Language Models Topics and technologies covered include chatbots code generation OpenAI API Hugging Face vector databases LangChain fine tuning PEFT fine tuning soft prompt tuning LoRA QLoRA evaluating models and Direct Preference Optimization Part two focuses on projects You ll create projects understanding design

decisions Each project may have more than one possible implementation as there is often not just one good solution You ll also explore LLMOps related topics Part three delves into enterprise solutions Large Language Models are not a standalone solution in large corporate environments they are one piece of the puzzle You ll explore how to structure solutions capable of transforming organizations with thousands of employees highlighting the main role that Large Language Models play in these new solutions This book equips you to confidently navigate and implement Large Language Models empowering you to tackle diverse challenges in the evolving landscape of language processing What You Will Learn Gain practical experience by working with models from OpenAI and the Hugging Face library Use essential libraries relevant to Large Language Models covering topics such as Chatbots Code Generation OpenAI API Hugging Face and Vector databases Create and implement projects using LLM while understanding the design decisions involved Understand the role of Large Language Models in larger corporate settings Who This Book Is For Data analysts data science Python developers and software professionals interested in learning the foundations of NLP LLMs and the processes of building modern LLM applications for various tasks

Intermediate Python and Large Language Models Dilyan Grigorov,2025-06-27 Harness the power of Large Language Models LLMs to build cutting edge AI applications with Python and LangChain This book provides a hands on approach to understanding implementing and deploying LLM powered solutions equipping developers data scientists and AI enthusiasts with the tools to create real world AI applications The journey begins with an introduction to LangChain covering its core concepts integration with Python and essential components such as prompt engineering memory management and retrieval augmented generation RAG As you progress you ll explore advanced AI workflows including multi agent architectures fine tuning strategies and optimization techniques to maximize LLM efficiency The book also takes a deep dive into practical applications of LLMs guiding you through the development of intelligent chatbots document retrieval systems content generation pipelines and AI driven automation tools You ll learn how to leverage APIs integrate LLMs into web and mobile platforms and optimize large scale deployments while addressing key challenges such as inference latency cost efficiency and ethical considerations By the end of the book you ll have gained a solid understanding of LLM architectures hands on experience with LangChain and the expertise to build scalable AI applications that redefine human computer interaction What You Will Learn Understand the fundamentals of LangChain and Python for LLM development Know advanced AI workflows including fine tuning and memory management Build AI powered applications such as chatbots retrieval systems and automation tools Know deployment strategies and performance optimization for real world use Use best practices for scalability security and responsible AI implementation Unlock the full potential of LLMs and take your AI development skills to the next level Who This Book Is For Software engineers and Python developers interested in learning the foundations of LLMs and building advanced modern LLM applications for various tasks   **RAG-Driven Generative AI** Denis Rothman,2024-09-30 Minimize AI hallucinations and build accurate custom generative AI pipelines with RAG using

embedded vector databases and integrated human feedback Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Implement RAG s traceable outputs linking each response to its source document to build reliable multimodal conversational agents Deliver accurate generative AI models in pipelines integrating RAG real time human feedback improvements and knowledge graphs Balance cost and performance between dynamic retrieval datasets and fine tuning static data Book DescriptionRAG Driven Generative AI provides a roadmap for building effective LLM computer vision and generative AI systems that balance performance and costs This book offers a detailed exploration of RAG and how to design manage and control multimodal AI pipelines By connecting outputs to traceable source documents RAG improves output accuracy and contextual relevance offering a dynamic approach to managing large volumes of information This AI book shows you how to build a RAG framework providing practical knowledge on vector stores chunking indexing and ranking You ll discover techniques to optimize your project s performance and better understand your data including using adaptive RAG and human feedback to refine retrieval accuracy balancing RAG with fine tuning implementing dynamic RAG to enhance real time decision making and visualizing complex data with knowledge graphs You ll be exposed to a hands on blend of frameworks like LlamaIndex and Deep Lake vector databases such as Pinecone and Chroma and models from Hugging Face and OpenAI By the end of this book you will have acquired the skills to implement intelligent solutions keeping you competitive in fields from production to customer service across any project What you will learn Scale RAG pipelines to handle large datasets efficiently Employ techniques that minimize hallucinations and ensure accurate responses Implement indexing techniques to improve AI accuracy with traceable and transparent outputs Customize and scale RAG driven generative AI systems across domains Find out how to use Deep Lake and Pinecone for efficient and fast data retrieval Control and build robust generative AI systems grounded in real world data Combine text and image data for richer more informative AI responses Who this book is for This book is ideal for data scientists AI engineers machine learning engineers and MLOps engineers If you are a solutions architect software developer product manager or project manager looking to enhance the decision making process of building RAG applications then you ll find this book useful *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   **Hands-On Reinforcement Learning for Games** Micheal Lanham,2020-01-03 Explore reinforcement learning RL techniques to build cutting edge games using Python libraries such as PyTorch OpenAI Gym and TensorFlow Key FeaturesGet to grips with the different reinforcement and DRL algorithms for game developmentLearn how to implement components such as artificial agents map and level generation and audio generationGain insights into cutting edge RL research and understand how it is similar to artificial general researchBook Description With the increased presence of AI in the gaming industry developers are challenged to create highly responsive and adaptive games by integrating artificial intelligence into their projects This book is your guide to learning how various reinforcement learning techniques and algorithms play an important role in game development with Python Starting with the basics this book will help you build a strong foundation in reinforcement learning for game development Each chapter will assist you in implementing different reinforcement learning techniques such as Markov decision processes MDPs Q learning actor critic methods SARSA and deterministic policy gradient algorithms to build logical self learning agents Learning these techniques will enhance your game development skills and add a variety of features to improve your game agent s productivity As you advance you ll understand how deep reinforcement learning DRL techniques can be used to devise strategies to help agents learn from their actions and build engaging games By the end of this book you ll be ready to apply reinforcement learning techniques to build a variety of projects and contribute to open source applications What you will learnUnderstand how deep learning can be integrated into an RL agentExplore basic to advanced algorithms commonly used in game developmentBuild agents that can learn and solve problems in all types of environmentsTrain a Deep Q Network DQN agent to solve the CartPole balancing problemDevelop game AI agents by understanding the mechanism behind complex AIIntegrate all the concepts learned into new projects or gaming agentsWho this book is for If you re a game developer looking to implement AI techniques to build next generation games from scratch this book is for you Machine learning and deep learning practitioners and RL researchers who want to understand how to use self learning agents in the game domain will also find this book useful Knowledge of game development and Python programming experience are required   KI statt K.O. – Wie Human Resources Künstliche Intelligenz vorantreibt Dominique René Fara,2026-03-05 K nstliche Intelligenz ver ndert die Arbeitswelt bereits jetzt grundlegend Besonders stark betroffen ist der Personalbereich Wer als HR Abteilung zukunftsf hig bleiben will muss mit KI arbeiten statt gegen sie Im gesamten Lebenszyklus eines Mitarbeitenden m ssen alle Aufgaben neu gedacht werden Das

Buch von Dominique Ren Fara liefert mit dem People Operating System People OS einen Bauplan f r eine moderne HR Organisation die nicht nur verwaltet sondern aktiv gestaltet Es zeigt wie HR Abteilungen KI erfolgreich in ihre Prozesse integrieren k nnen Zudem werden die Sorgen vieler HR Mitarbeitender thematisiert durch KI berfl ssig zu werden Anhand von Praxisbeispielen reommierter Unternehmen wie AXA GOLDBECK Festo oder REHAU werden Wege aufgezeigt diese ngste abzubauen und Potenziale auszusch pfen Inhalte KI Revolution Wie K nstliche Intelligenz Wirtschaft und Arbeit transformiert Kompetenzbedarfe im Zeitalter K nstlicher Intelligenz Die Ver nderung des Personalbereiches KI Entwicklung der Gesamtbelegschaft Mit KI F hrungskr fte entwickeln KI Automatisierung und ihre Auswirkungen auf People Culture Rahmenbedingungen im Unternehmen rechtliche Pflichten Risikomanagement und praktische Umsetzung **ChatGPT Atlas Browser Guide 2025** Konstantin Titov,2025-10-22 ChatGPT Atlas Browser Guide 2025 How to Use OpenAI s AI Browser Agent Mode and Browser Memories on macOS Setup Privacy Controls and Productivity Workflows Be first move fast ChatGPT Atlas is OpenAI s new chat first web browser and this is one of the first hands on guides written for real users who want results not hype Whether you re a student creator analyst or team lead this book shows you exactly how to install Atlas on macOS set it up in minutes and turn everyday browsing into automated private high leverage workflows Atlas brings ChatGPT to any page adds optional browser memories and introduces Agent Mode so it can take actions for you with guardrails you control What you ll learn step by step Install set up on macOS sign in import passwords bookmarks history and tune the new tab Ask ChatGPT experience for speed Search less finish more use on page chat for instant summaries clean citations comparisons and follow up questions without copy paste context juggling Stay in control master Incognito the address bar page visibility toggle and data controls so Atlas only sees what you allow Learn how memories are optional visible archivable and deletable Agent Mode safely let ChatGPT click around for you researching planning and completing routine tasks while respecting built in limits e g it can t run code or install extensions and your approvals Power workflows research briefs competitor scans shopping carts study aids and executive summaries you can trust For families teams understand parental controls and Business Enterprise basics so you can enable features responsibly Who this book is for Students researchers who want faster reading better notes and self tests as they learn Professionals who live in the browser and need reliable automation for docs data and decisions Creators marketers who need quick comparisons curated sources and production ready summaries Team admins parents who care about privacy transparency and safe defaults Why this guide why now Atlas changes the center of gravity from URLs and tabs to conversation and action It s chat powered browsing with privacy controls and optional memories plus Agent Mode when you want hands off execution all shipping now on macOS with Windows iOS and Android experiences coming next We distill the launch details and best practices into a practical zero fluff playbook you can use on day one Up to date launch window coverage Written around the current release macOS availability Agent Mode preview for Plus Pro Business and the latest data controls parental controls so you re

learning features that exist today not someday If you re ready to browse less and accomplish more ChatGPT Atlas Browser Guide 2025 is your fast start to the web s chat first future   **The STEP-BY-STEP GUIDE FOR OPENAI AND AZURE OPENAI** AJIT DASH,   Reinforcement Learning Abhishek Nandy,Manisha Biswas,2017-12-07 Master reinforcement learning a popular area of machine learning starting with the basics discover how agents and the environment evolve and then gain a clear picture of how they are inter related You ll then work with theories related to reinforcement learning and see the concepts that build up the reinforcement learning process Reinforcement Learning discusses algorithm implementations important for reinforcement learning including Markov s Decision process and Semi Markov Decision process The next section shows you how to get started with Open AI before looking at Open AI Gym You ll then learn about Swarm Intelligence with Python in terms of reinforcement learning The last part of the book starts with the TensorFlow environment and gives an outline of how reinforcement learning can be applied to TensorFlow There s also coverage of Keras a framework that can be used with reinforcement learning Finally you ll delve into Google s Deep Mind and see scenarios where reinforcement learning can be used What You ll Learn Absorb the core concepts of the reinforcement learning process Use advanced topics of deep learning and AI Work with Open AI Gym Open AI and Python Harness reinforcement learning with TensorFlow and Keras using Python Who This Book Is For Data scientists machine learning and deep learning professionals developers who want to adapt and learn reinforcement learning   **OpenAI Codex CLI & Agents SDK for Developers** Todd Chandler,2025-11-03 OpenAI Codex CLI Agents SDK for Developers Create Test and Ship Agentic AI Systems that Boost Productivity and Reliability How do you move from experimenting with AI in the browser to building agents that live in your terminal follow your rules and scale across real production workflows This book gives developers AI engineers and DevOps professionals a direct path from local prototypes to fully governed testable and observable AI systems without guesswork or hype In a world where AI agents are redefining software development OpenAI Codex CLI Agents SDK for Developers delivers the hands on clarity professionals need to work CLI first You ll learn how to use OpenAI s Codex CLI for local iteration code modification and automation then elevate your work using the Agents SDK to create durable testable agent systems Each concept is anchored in practical examples you can run immediately guiding you from setup to policy enforcement evaluation telemetry and CI CD integration This is not a book about abstract theory It s about building real agentic systems that you can reason about test and trust Through structured workflows reproducible examples and consistent patterns you ll learn how to make AI work alongside you not above you You ll gain the skills to Install configure and use the Codex CLI to create agents directly from your project directory Write test and govern agents using the OpenAI Agents SDK in both TypeScript and Python Build reproducible local development environments using containers and transcripts Integrate tracing observability and evaluation metrics for performance and cost tracking Apply policy modules approval systems and guardrails for safe and compliant automation Design scalable multi agent architectures that balance autonomy with control Every chapter is built

around real engineering patterns clear measurable and production ready By the final section you ll not only understand how these systems work but also have the confidence to build your own AI enabled workflows that enhance productivity and reduce operational risk Whether you re automating development tasks orchestrating agents across services or introducing AI to your enterprise stack this guide equips you with the practical tools and mental models to do it right safely reliably and at scale Build smarter faster and safer with AI agents that actually work Get your copy and start shipping the next generation of agentic systems today   **Creating ChatGPT Apps with JavaScript** Bruce Hopkins Jr.,Bruce Hopkins Sr.,2025-03-26 Transform your JavaScript expertise through the power of Open AI API models using Creating ChatGPT Apps with JavaScript This book will guide JavaScript developers to build smart applications while providing tangible knowledge of OpenAI s API for text summarization creating transcripts from audio files generating images and running models locally on your machine Through hands on projects and code examples readers will discover how to build AI powered apps from scratch such as using embeddings to train a Discord bot to answer customers questions in multiple languages Readers will also learn to dictate text for writing articles or blogs with a localized integration of Whisper and generate hero images with Dall E What s more in the final chapter of this book you ll be able to maximize productivity by creating a Smart Assistant like Alexa or Siri with JavaScript and the new Raspberry Pi 5 From seasoned developers to newcomers this book offers something for everyone Not only will readers learn to build apps with ChatGPT and JavaScript but they will also learn best practices for prompt engineering They ll understand how AI models can enhance workplace efficiency and utilize natural language processing NLP to make interactions with applications feel well natural The end result is expert knowledge in leveraging ChatGPT programmatically and incorporating the technology into diverse applications What You Will Learn Gain a deeper understanding of ChatGPT and how OpenAI s models work and different ways to implement each of their various features Authenticate with ChatGPT and OpenAI s API and learn to send prompts with best practices with prompt engineering Streamline productivity and content creation by leveraging transcription generation for dictation and image generation for creating hero images Stay ahead of the game by incorporating different new features of OpenAI s API and understanding more complex concepts like using GPT 4 to train a Discord bot with an FAQ to assist with multilingual tech support Who This Book is for This book is written for JavaScript developers and hobbyists that want to use OpenAI and ChatGPT to create intelligent applications and streamline productivity No prior experience with ChatGPT or OpenAI APIs is required

    Building AI Applications with OpenAI APIs Martin Yanev,2024-10-04 Improve your app development skills by building a ChatGPT clone code bug fixer quiz generator translation app email auto reply PowerPoint generator and more Key Features Transition into an expert AI developer by mastering ChatGPT concepts including fine tuning and integrations Gain hands on experience through real world projects covering a wide range of AI applications Implement payment systems in your applications by integrating the ChatGPT API with Stripe Purchase of the print or Kindle book includes a free PDF eBook

Book Description Unlock the power of AI in your applications with ChatGPT with this practical guide that shows you how to seamlessly integrate OpenAI APIs into your projects enabling you to navigate complex APIs and ensure seamless functionality with ease This new edition is updated with key topics such as OpenAI Embeddings which ll help you understand the semantic relationships between words and phrases You ll find out how to use ChatGPT Whisper and DALL E APIs through 10 AI projects using the latest OpenAI models GPT 3 5 and GPT 4 with Visual Studio Code as the IDE Within these projects you ll integrate ChatGPT with frameworks and tools such as Flask Django Microsoft Office APIs and PyQt You ll get to grips with NLP tasks build a ChatGPT clone and create an AI code bug fixing SaaS app The chapters will also take you through speech recognition text to speech capabilities language translation generating email replies creating PowerPoint presentations and fine tuning ChatGPT along with adding payment methods by integrating the ChatGPT API with Stripe By the end of this book you ll be able to develop deploy and monetize your own groundbreaking applications by harnessing the full potential of ChatGPT APIs What you will learn Develop a solid foundation in using the OpenAI API for NLP tasks Build deploy and integrate payments into various desktop and SaaS AI applications Integrate ChatGPT with frameworks such as Flask Django and Microsoft Office APIs Unleash your creativity by integrating DALL E APIs to generate stunning AI art within your desktop apps Experience the power of Whisper API s speech recognition and text to speech features Find out how to fine tune ChatGPT models for your specific use case Master AI embeddings to measure the relatedness of text strings Who this book is for This book is for a diverse range of professionals including programmers entrepreneurs and software enthusiasts Beginner programmers Python developers exploring AI applications with ChatGPT software developers integrating AI technology and web developers creating AI powered web applications with ChatGPT will find this book beneficial Scholars and researchers working on AI projects with ChatGPT will also find it valuable Basic knowledge of Python and familiarity with APIs is needed to understand the topics covered in this book   *Hands-On Prompt Engineering* Apurv Sibal,Paramdeep Singh,Rohit Khandekar,2024-02-28 A comprehensive introduction to the fundamentals of prompt engineering with ChatGPT Hands On Prompt Engineering is a practical and essential resource for any professional looking to implement AI in their business This book teaches you the basics of prompt engineering which lets you program ChatGPT to perform tasks It focuses on business applications of AI and walks you through the process of implementing techniques and algorithms using available software tools You ll also learn the approaches and best practices that have led to success for leaders in this area Prompt engineering differs from the process of coding traditional queries in a few key ways With prompt engineering task descriptions are formulated as questions so the description of the task is embedded in the input given to the AI Additionally some language models can be trained to complete tasks using information contained in the prompts prompt based learning Hands On Prompt Engineering teaches you to work with these and pretrained models using Python code Learn what types of AI language model tasks can be productively automated through prompt engineering Use Python to program OpenAI s

ChatGPT3 and add business value Discover the best practices and proven techniques in the emerging field of prompt engineering Get hands on guidance for optimizing the output you receive from ChatGPT and other AI models Hands On Prompt Engineering is an essential resource for software engineers MLOps engineers data scientists and other business professionals interested in utilizing AI and natural language processing with prompt engineering *Beginning ChatGPT for Python* Lydia Evelyn,Bruce Hopkins,2024-11-22 Unlock the future of software development and empower yourself to elevate your Python applications by harnessing the power of AI as this field continues to grow and evolve Perfect for beginner to intermediate Python programmers this book breaks down the essentials of using ChatGPT and OpenAI APIs You ll start with the basics learning to authenticate send prompts generate responses test in the Playground and handle errors with ease Each chapter includes hands on exercises that bring concepts to life demonstrating different API functionalities and practical applications You ll master models like GPT 4o GPT 4 GPT 3 5 Whisper and DALL E enabling you to enhance your applications with cutting edge AI Discover how generative AI tools like ChatGPT can automate tedious tasks rather than replace jobs Leverage ChatGPT s powerful Natural Language Processing NLP capabilities to handle various formats of unstructured text within your Python apps Quickly see how easy it is to use ChatGPT as your AI pair programmer boosting your productivity and speed This step by step guide will have you creating intelligent chatbots that can automatically process messages from Slack or Discord With Beginning ChatGPT for Python you ll master the ChatGPT and OpenAI APIs building intelligent applications that offer a personalized and engaging user experience What You ll Learn Connect with the ChatGPT and OpenAI APIs and send effective prompts Harness parameters like temperature and top_p to create unique and engaging responses from ChatGPT Create an intelligent assistant bot for Slack that automates tasks and enhances productivity Develop a bot that can moderate conversations and manage communities on Discord Add context to your prompts to get more accurate and relevant responses Who This Book Is For Python developers and enthusiasts who aspire to employ OpenAI and ChatGPT in the creation of intelligent applications to enhance productivity *Chatgpt | Generative AI - The Step-By-Step Guide For OpenAI & Azure OpenAI In 36 Hrs.* Ajit Dash,2023-08-27 Dive into the world of OpenAI and Azure OpenAI in 36 hrs with this comprehensive guide From understanding the fundamentals of AI and machine learning to exploring the power of GPT models and advanced NLP techniques this book equips you with the knowledge to leverage cutting edge technologies Learn how to harness tokens navigate installations and master prompt engineering Whether you re a developer data professional or AI enthusiast this book offers hands on engagement real world relevance and practical insights Unveil the potential of OpenAI and Azure OpenAI to transform your AI journey In this Step by Step Guide you ll find clear and concise instructions practical examples and hands on exercises that will accelerate your learning journey From understanding the fundamentals of AI OpenAI Azure OpenAI Machine learning to exploring natural language processing and building chatbots you ll gain the knowledge and confidence to apply these technologies in real world scenarios CHAPTER

SUMMARY Chapter 1 Introduction to OpenAI and Azure OpenAI Exploring OpenAI s mission Azure OpenAI s features benefits and differences between OpenAI and Azure OpenAI Chapter 2 Understanding AI and ML Delving into artificial intelligence and machine learning key components and the role of deep learning and neural networks Chapter 3 Introduction to NLP Basics of natural language processing techniques like tokenization and text classification and language model applications Chapter 4 Exploring GPT Models Overview of GPT models details of GPT 3 and GPT 4 their architecture capabilities and differences including GPT 3 5 Turbo and Codex Chapter 5 How Tokens Work Understanding tokens in GPT models their benefits and examples of successful Azure OpenAI implementations Chapter 6 Installation of OpenAI Setting up an OpenAI account exploring OpenAI product offerings understanding ChatGPT DALL E 2 and APIs Chapter 7 Installation of Azure OpenAI Installing and setting up Azure CLI creating an Azure account deploying models and utilizing Azure OpenAI playground and resources Chapter 8 GPT Model Architecture Unveiling the architecture of GPT models their history and learning more about LLM Chapter 9 Prompt Engineering Exploring prompt engineering in context shots text classification and various use cases Chapter 10 Content Filtering Examining content filtering goals methods and applications Chapter 11 Hallucination and Fine Tuning Understanding hallucination fine tuning and their best practices Chapter 12 Use Cases Installation instructions and examples of interview question generators stock market recommendations and building chatbots

Exploring GPT-3 Steve Tingiris,Bret Kinsella,2021-08-27 Get started with GPT 3 and the OpenAI API for natural language processing using JavaScript and Python Key FeaturesUnderstand the power of potential GPT 3 language models and the risks involvedExplore core GPT 3 use cases such as text generation classification and semantic search using engaging examplesPlan and prepare a GPT 3 application for the OpenAI review process required for publishing a live applicationBook Description Generative Pre trained Transformer 3 GPT 3 is a highly advanced language model from OpenAI that can generate written text that is virtually indistinguishable from text written by humans Whether you have a technical or non technical background this book will help you understand and start working with GPT 3 and the OpenAI API If you want to get hands on with leveraging artificial intelligence for natural language processing NLP tasks this easy to follow book will help you get started Beginning with a high level introduction to NLP and GPT 3 the book takes you through practical examples that show how to leverage the OpenAI API and GPT 3 for text generation classification and semantic search You ll explore the capabilities of the OpenAI API and GPT 3 and find out which NLP use cases GPT 3 is best suited for You ll also learn how to use the API and optimize requests for the best possible results With examples focusing on the OpenAI Playground and easy to follow JavaScript and Python code samples the book illustrates the possible applications of GPT 3 in production By the end of this book you ll understand the best use cases for GPT 3 and how to integrate the OpenAI API in your applications for a wide array of NLP tasks What you will learnUnderstand what GPT 3 is and how it can be used for various NLP tasksGet a high level introduction to GPT 3 and the OpenAI APIImplement JavaScript and Python code examples that call the OpenAI

APIStructure GPT 3 prompts and options to get the best possible resultsSelect the right GPT 3 engine or model to optimize for speed and cost efficiencyFind out which use cases would not be suitable for GPT 3Create a GPT 3 powered knowledge base application that follows OpenAI guidelinesWho this book is for Exploring GPT 3 is for anyone interested in natural language processing or learning GPT 3 with or without a technical background Developers product managers entrepreneurs and hobbyists looking to get to grips with NLP AI and GPT 3 will find this book useful Basic computer skills are all you need to get the most out of this book *Learn OpenAI Whisper* Josué R. Batista,2024-05-31 Master automatic speech recognition ASR with groundbreaking generative AI for unrivaled accuracy and versatility in audio processing Key Features Uncover the intricate architecture and mechanics behind Whisper s robust speech recognition Apply Whisper s technology in innovative projects from audio transcription to voice synthesis Navigate the practical use of Whisper in real world scenarios for achieving dynamic tech solutions Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionAs the field of generative AI evolves so does the demand for intelligent systems that can understand human speech Navigating the complexities of automatic speech recognition ASR technology is a significant challenge for many professionals This book offers a comprehensive solution that guides you through OpenAI s advanced ASR system You ll begin your journey with Whisper s foundational concepts gradually progressing to its sophisticated functionalities Next you ll explore the transformer model understand its multilingual capabilities and grasp training techniques using weak supervision The book helps you customize Whisper for different contexts and optimize its performance for specific needs You ll also focus on the vast potential of Whisper in real world scenarios including its transcription services voice based search and the ability to enhance customer engagement Advanced chapters delve into voice synthesis and diarization while addressing ethical considerations By the end of this book you ll have an understanding of ASR technology and have the skills to implement Whisper Moreover Python coding examples will equip you to apply ASR technologies in your projects as well as prepare you to tackle challenges and seize opportunities in the rapidly evolving world of voice recognition and processing What you will learn Integrate Whisper into voice assistants and chatbots Use Whisper for efficient accurate transcription services Understand Whisper s transformer model structure and nuances Fine tune Whisper for specific language requirements globally Implement Whisper in real time translation scenarios Explore voice synthesis capabilities using Whisper s robust tech Execute voice diarization with Whisper and NVIDIA s NeMo Navigate ethical considerations in advanced voice technology Who this book is for Learn OpenAI Whisper is designed for a diverse audience including AI engineers tech professionals and students It s ideal for those with a basic understanding of machine learning and Python programming and an interest in voice technology from developers integrating ASR in applications to researchers exploring the cutting edge possibilities in artificial intelligence

Unveiling the Magic of Words: A Overview of "**Openai Update Install**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Openai Update Install**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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