Openai Pc Build Update

Paul Deitel,Harvey M. Deitel

Openai Pc Build Update:

Progress in Artificial Intelligence Nuno Moniz,Zita Vale,José Cascalho,Catarina Silva,Raquel Sebastião,2023-12-14 The two volume set LNAI 14115 and 14116 constitutes the refereed proceedings of the 22nd EPIA Conference on Progress in Artificial Intelligence EPIA 2023 held in Faial Island Azores in September 2023 The 85 full papers presented in these proceedings were carefully reviewed and selected from 163 submissions The papers have been organized in the following topical sections ambient intelligence and affective environments ethics and responsibility in artificial intelligence general artificial intelligence intelligent robotics knowledge discovery and business intelligence multi agent Systems theory and applications natural language processing text mining and applications planning scheduling and decision making in AI social simulation and modelling artifical intelligence generation and creativity artificial intelligence and law artificial intelligence in power and energy systems artificial intelligence in medicine artificial intelligence and IoT in agriculture artificial intelligence in transportation systems artificial intelligence in smart computing artificial intelligence for industry and societies

Building Intelligent Applications with Generative AI Yattish Ramhorry,2024-08-22 DESCRIPTION Building Intelligent Applications with Generative AI is a comprehensive guide that unlocks the power of generative AI for building cutting edge applications This book covers a wide range of use cases and practical examples from text generation and conversational agents to creative media generation and code completion These examples are designed to help you capitalize on the potential of generative AI in your applications Through clear explanations step by step tutorials and real world case studies you will learn how to prepare data and train generative AI models You will also explore different generative AI techniques including large language models like GPT 4 ChatGPT Llama 2 and Google s Gemini to understand how they can be applied in various domains such as content generation virtual assistants and code generation With a focus on practical implementation this book also examines ethical considerations best practices and future trends in generative AI Further this book concludes by exploring ethical considerations and best practices for building responsible GAI applications ensuring you are harnessing this technology for good By the end of this book you will be well equipped to leverage the power of GAI to build intelligent applications and unleash your creativity in innovative ways KEY FEATURES Learn the fundamentals of generative AI and the practical usage of prompt engineering Gain hands on experience in building generative AI applications Learn to use tools like LangChain LangSmith and FlowiseAI to create intelligent applications and AI chatbots WHAT YOU WILL LEARN Understand generative AI GAI and large language models LLMs Explore real world GAI applications across industries Build intelligent applications with the ChatGPT API Explore retrieval augmented generation with LangChain and Gemini Pro Create chatbots with LangChain and Streamlit for data retrieval WHO THIS BOOK IS FOR This book is for developers data scientists AI practitioners and tech enthusiasts who are interested in leveraging generative AI techniques to build intelligent applications across various domains TABLE OF CONTENTS 1 Exploring the World of Generative AI 2 Use

Cases for Generative AI Applications 3 Mastering the Art of Prompt Engineering 4 Integrating Generative AI Models into Applications 5 Emerging Trends and the Future of Generative AI 6 Building Intelligent Applications with the ChatGPT API 7 Retrieval Augmented Generation with Gemini Pro 8 Generative AI Applications with Gradio 9 Visualize your Data with LangChain and Streamlit 10 Building LLM Applications with Llama 2 11 Building an AI Document Chatbot with Flowise AI 12 Best Practices for Building Applications with Generative AI 13 Ethical Considerations of Generative AI **Artificial Intelligence in Architecture and the Built Environment** Michal Sourek,2025-01-22 Imagine if every architect had an apprentice who could consistently observe and understand their intentions take over routine tasks and monitor technical environmental and economic constraints This apprentice would continually improve freeing the architect to concentrate on truly creative work This book outlines a plan to turn this vision into reality It evaluates the development of artificial intelligence from its inception to the present focusing on the last two decades of applying AI in architectural design and planning the current state of architectural practice is also examined Integrating architecture computer science AI robotics economics law neurobiology and philosophy the vision is built on three key premises i authentic poetic creativity that transcends parameterization and algorithmizing ii innovative learning strategies and training approaches not yet applied concerning architectural design and iii the convergence of architecture s inherent spatiality with virtual reality technology and new theories of human thinking and intelligence poised for implementation in machine learning **The ChatGPT Revolution** Donna McGeorge,2023-07-12 The essential guide to using AI in your everyday life The ChatGPT Revolution is the ultimate quick start guide to unlocking the power of AI tool ChatGPT We re on the edge of an AI revolution but what does that mean for you It s time to get curious about how the latest tech can help you handle your everyday load at work and at home Whether you re overwhelmed by repetitive time consuming tasks or you re simply looking for a fresh injection of creativity ChatGPT is the virtual assistant that s got your back With this essential handbook you ll learn how quickly and easily ChatGPT can turn your to do list into a ta da list From helping you write emails and reports to planning your next meal or vacation ChatGPT offers a new way to simplify your daily tasks and responsibilities The ChatGPT Revolution shows you exactly how to use this innovative tech to save on time and stress Sharing practical tips and fun ideas author and acclaimed productivity expert Donna McGeorge unpacks everything you need to know Learn how AI is already being used in everyday life and how tools like ChatGPT are transforming the future of work and life admin Understand the different tasks ChatGPT can do and when and how to use it most effectively Get step by step advice for writing smart specific prompts and follow up queries that will produce better results Get curious and get productive with entertaining examples advice and activities to take control revitalise your workflows and overcome procrastination and creative blocks Whether you re a busy professional or you simply want an answer to the dreaded question What s for dinner The ChatGPT Revolution reveals how you can use ChatGPT as a tool to simplify your life AI technologies are here to stay this is your invitation to join the revolution Pick up this

book and learn how to harness the power of AI so you can free up more time and energy for the things that truly matter

Foundation, Architecture, and Prototyping of Humanized AI Mark Chang,2023-07-31 Humanized AI HAI emerging as the next of the AI waves refers to artificial social beings that are very close to humans in various aspects beings who are machine race humans not digital slaves Foundation Architecture and Prototyping of HAI deploy a novel smalldata approach to vertically explore the spectrum of HAI Different from the popular big data philosophy that is based on the rigid notion that the connotation of each concept is fixed and the same to everyone this book treats understanding as a process from simple to complex and uses the similarity principle to effectively deal with novelties Combining the efficiency of the Behaviorists goal driven approach and the flexibility of a Constructivists approach both the architecture of HAI and the philosophical discussions arising from it are elaborated upon Advancing a unique approach to the concept of HAI this book appeals to professors and students of both AI and philosophy as well as industry professionals looking to stay at the forefront of developments within the field   Context Engineering for Multi-Agent Systems Denis Rothman,2025-11-18 Build AI that thinks in context using semantic blueprints multi agent orchestration memory RAG pipelines and safeguards to create your own Context Engine Free with your book DRM free PDF version access to Packt s next gen Reader Key Features Design semantic blueprints to give AI structured goal driven contextual awareness Orchestrate multi agent workflows with MCP for adaptable context rich reasoning Engineer a glass box Context Engine with high fidelity RAG trust and safeguards Book DescriptionGenerative AI is powerful yet often unpredictable This guide shows you how to turn that unpredictability into reliability by thinking beyond prompts and approaching AI like an architect At its core is the Context Engine a glass box multi agent system you ll learn to design and apply across real world scenarios Written by an AI guru and author of various cutting edge AI books this book takes you on a hands on journey from the foundations of context design to building a fully operational Context Engine Instead of relying on brittle prompts that give only simple instructions you ll begin with semantic blueprints that map goals and roles with precision then orchestrate specialized agents using the Model Context Protocol As the engine evolves you ll integrate memory and high fidelity retrieval with citations implement safeguards against data poisoning and prompt injection and enforce moderation to keep outputs aligned with policy You ll also harden the system into a resilient architecture then see it pivot across domains from legal compliance to strategic marketing proving its domain independence By the end of this book you ll be equipped with the skills to engineer an adaptable verifiable architecture you can repurpose across domains and deploy with confidence Email sign up and proof of purchase requiredWhat you will learn Develop memory models to retain short term and cross session context Craft semantic blueprints and drive multi agent orchestration with MCP Implement high fidelity RAG pipelines with verifiable citations Apply safeguards against prompt injection and data poisoning Enforce moderation and policy driven control in AI workflows Repurpose the Context Engine across legal marketing and beyond Deploy a scalable observable Context Engine in production Who this book is for This book

is for AI engineers software developers system architects and data scientists who want to move beyond ad hoc prompting and learn how to design structured transparent and context aware AI systems It will also appeal to ML engineers and solutions architects with basic familiarity with LLMs who are eager to understand how to orchestrate agents integrate memory and retrieval and enforce safeguards   *Java for Programmers* Paul Deitel,Harvey M. Deitel,2025-05-21 The professional programmer s Deitel guide to Java with integrated generative AI Written for programmers with a background in another high level language in Java for Programmers with Generative AI Fifth Edition you ll learn modern Java development hands on using the latest Java idioms and features and genAIs In the context of 200 real world code examples you ll quickly master Java fundamentals then move on to arrays strings regular expressions JSON CSV processing with the Jackson library private and public key cryptography classes inheritance polymorphism interfaces dependency injection exceptions generic collections custom generics functional programming with lambdas and streams JavaFX GUI graphics and multimedia platform threads virtual threads structured concurrency scoped values building API based Java genAI apps database with JDBC and SQLite the Java Platform Module System and JShell for Python like interactivity Features GenAI Prompt Engineering API Calls 600 GenAI Exercises ChatGPT Gemini Claude Perplexity Multimodal Text Code Images Audio Speech to Text Text to Speech Video Generics Collections Classes Methods Functional Programming Lambdas Streams JavaFX GUI Graphics Multimedia Concurrency Parallel Streams Virtual Threads Structured Concurrency Scoped Values Concurrent Collections Multi Core Database JDBC SQL SQLite Java Platform Module System JPMS Objects Natural Java API String BigInteger BigDecimal Date Time Cryptography ArrayList Regex JSON CSV Web Services JShell for Python Like Interactivity Want to stay in touch with the Deitels Contact the authors at deitel deitel com Join the Deitel social media communities deitel com linkedin facebook com DeitelFan instagram com DeitelFan x com deitel youtube com DeitelTV mastodon social deitel For source code and updates visit deitel com javafp5 Reviewer Comments The future of Java programming is here and this new edition of Deitel is leading the charge By embracing genAI head on the authors are potentially revolutionizing programming education Through its integrative approach to the use and study of genAI this book is positioned to be the leading book in modern Java and its applications Indeed I expect that it should be widely adopted by instructors who want to ingrain in their students an appreciation for the critical role that Java will play in data science machine learning artificial intelligence and cybersecurity The book s innovative and forward thinking use of genAI facilitates reader engagement and inspires readers to think critically about the benefits and limitations of AI as a programming aid Chapter 19 could become everyone s favorite new Java book chapter the generative AI API based code examples are interesting and fun All audiences of this book should read the Preface there s so much to get excited about It demonstrates with refreshing transparency and honesty how much love and care went into the reinvention of an already outstanding Java book by bringing it into a new frontier of what it means to be a programmer in today s world Bravo Your Preface statement GenAI has created an ultra high level

programming capability that will leverage your Java learning experience and ability to produce robust top quality Java software quickly conveniently and economically is a great conclusion to the Preface intro really helps justify the use of genAI Brian Canada Professor of Computational Science University of South Carolina Beaufort After reading your whole book it was fun to read the Preface that wraps everything up at a high level You have done some amazing work here and I m glad to have been a small part of it as a reviewer I especially appreciate how difficult it must have been to make sure everything was as up to date as possible with the speed at which things change in this field and the deftness with which you incorporated all the focus on GenAI and data science that s in this book Emily Navarro Ph D Continuing Lecturer Department of Informatics University of California Irvine The generative AI exercises are awesome and reflect the way modern developers work They are fun and let the reader explore and learn about AI by using AI how meta This allows readers to expand their knowledge and get a feel for the AIs code related capabilities Jeanne Boyarsky CodeRanch Java Champion Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details Note eBooks are 4 color and print books are black and white   **THE INTELLIGENCE OF MACHINES** Patrick K. Kalifungwa,2024-11-13 In a 1951 lecture Turing Alan 1951 Turing argued It seems probable that once the machine thinking method had started it would not take long to outstrip our feeble powers There would be no question of the machines dying and they would be able to converse with each other to sharpen their wits At some stage therefore we should have to expect the machines to take control in the way that is mentioned in Samuel Butler s Erewhon Also in a lecture broadcast on the BBC Turing Alan 1951 He expressed the opinion If a machine can think it might think more intelligently than we do and then where should we be Even if we could keep the machines in a subservient position for instance by turning off the power at strategic moments we should as a species feel greatly humbled This new danger is certainly something which can give us anxiety as interpreted by Seth Baum Hubert Dreyfus writes In general by accepting the fundamental assumptions that the nervous system is part of the physical world and that all physical processes can be described in a mathematical formalism which can in turn be manipulated by a digital computer one can arrive at the strong claim that the behavior which results from human information processing whether directly formalizable or not can always be indirectly reproduced on a digital machine Dreyfus 1972 John Searle writes Could a man made machine think Assuming it possible produce artificially a machine with a nervous system the answer to the question seems to be obviously yes Could a digital computer think If by digital computer you mean anything at all that has a level of description where it can be correctly described as the instantiation of a computer program then again the answer is of course yes since we are the instantiations of any number of computer programs and we can think Searle 1980   Story Machines: How Computers Have Become Creative Writers Mike Sharples,Rafael Pérez y Pérez,2022-07-05 This fascinating book explores machines as authors of fiction past present and future For centuries writers have dreamed of mechanical storytellers We can now build these devices What will be the impact on society of AI programs that generate

original stories to entertain and persuade What can we learn about human creativity from probing how they work In Story Machines two pioneers of creative artificial intelligence explore the design and impact of AI story generators The book covers three themes language generators that compose coherent text storyworlds with believable characters and AI models of human storytellers Providing examples of story machines through the ages it covers the history recent developments and future implications of automated story generation Anyone with an interest in story writing will gain a new perspective on what it means to be a creative writer what parts of creativity can be mechanized and what is essentially human Story Machines is for those who have ever wondered what makes a good story why stories are important to us and what the future holds for storytelling   Dictionary Catalog of the Art and Architecture Division New York Public Library. Art and Architecture Division,1975   Artificial Intelligence Markets ,1985   **The Engineer** ,1908   The Scottish Farmer ,1930

   Mastering OpenAI for Enterprise Sriram Subramanian,2025-03-11 TAGLINE 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 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 WILL YOU 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 WHO IS THIS BOOK FOR This book is tailored for both beginners and experienced professionals looking to harness the power of OpenAI Ideal for application architects developers AI engineers CTOs and technology leaders it provides the essential knowledge and hands on skills needed to integrate OpenAI solutions into enterprise applications effectively TABLE OF CONTENTS 1 OpenAI Primer 2 Deep Learning Transformers and OpenAI Tools 3 Natural Language Processing with GPTs

4 Computer Vision with DALL E and CLIP 5 Building Chatbots with ChatGPT 6 AI Ethics and Responsible AI 7 Deploying OpenAI Models 8 Case Studies and Best Practices Appendix Retrieval Augmented Generation RAG Index <u>OpenAI Codex CLI & Agents SDK for Developers</u> 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 <u>The Complete OpenAI Agents SDK Blueprint</u> JAMES. KARANJA MAINA,2025-07-13 Build production ready AI agents using OpenAI Agents SDK in under 2 hours Whether you re a complete beginner or experienced developer this hands on blueprint gets you from Hello World to deployed AI systems faster than any other resource With 100 working code examples you will master the OpenAI Agents SDK while building real applications that handle customer service research automation content moderation and complex multi agent workflows What You ll Build Your first AI agent in 10 minutes with tools and function calling Production ready customer service system with safety guardrails Multi agent research teams that work together autonomously Containerized deployments ready for AWS Google Cloud or Azure Monitoring dashboards that track performance costs and errors

Enterprise grade security with authentication and rate limiting Why This Book Works Unlike theoretical guides every concept includes immediately runnable code The 2 hour express path gets you deployed fast while comprehensive chapters let you master advanced patterns like agent orchestration streaming responses and production observability Perfect For Python developers adding AI capabilities to existing applications Startup teams needing production agents without months of R D Enterprise developers building scalable AI systems Anyone wanting to understand how modern AI agents really work Bonus Materials Complete Docker configurations Kubernetes deployment files CI CD pipelines and production monitoring setups Everything needed to scale from prototype to enterprise Note code samples can be found at GitHub under jkmaina openai agents blueprint   *MCP Server Development with the OpenAI Agent SDK* Caden Nexon,2025-11-16 MCP Server Development with the OpenAI Agent SDK is the ultimate guide to designing powerful and intelligent MCP connected AI systems using OpenAI s next generation Agent SDK This volume shows you how to build custom tools executors workflows function calling endpoints memory layers reasoning loops and dynamic multi step pipelines all orchestrated through MCP connected agents You ll learn how the OpenAI Agent SDK models reasoning actions delegation retries error handling constraints and data persistence You ll build advanced MCP server modules that allow agents to interact with APIs cloud resources databases internal tools filesystems and secure enterprise systems Beyond core engineering the book also explores security trust boundaries testability observability and production deployments ensuring your AI agents remain predictable auditable and enterprise safe By the end you will be fully equipped to build real world AI assistants developer copilots enterprise automations and autonomous AI systems using the combined power of MCP and the OpenAI Agent SDK

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   **Mastering OpenAI Codex CLI & Agent SDK** James C Robert,2025-11-24 Mastering OpenAI Codex CLI Agent SDK Build Test and Deploy AI Systems to Enhance Productivity and Reliability Unlock the full power of AI automation with practical real world tools that transform how you build test and deploy intelligent systems This book shows you how to turn OpenAI s Codex CLI and Agent SDK into your personal productivity engine Mastering OpenAI Codex CLI Agent SDK is a comprehensive guide designed for developers creators analysts and technical teams who want to build reliable AI driven workflows Whether you re a beginner exploring OpenAI tools or an experienced engineer aiming to optimize performance this book gives you clear actionable steps to create high impact AI systems Through hands on examples best practices and real deployment strategies you ll learn how to automate tasks streamline development cycles and build agents that work consistently in real world environments From debugging prompts to creating reusable pipelines and deploying production ready agents this guide shows you how to elevate your AI engineering skills and achieve measurable results Benefits Practical step by step tutorials for using the OpenAI Codex CLI and Agent SDK Real world use cases that help you implement automation testing and scalable pipelines Best practice workflows to improve system reliability safety and performance Deployment ready strategies for building agents that integrate with APIs tools and external systems Productivity focused techniques that reduce development time and eliminate repetitive manual work Ready to build smarter faster and more reliable AI systems Get your copy now and start mastering the tools that will define the next generation of intelligent automation   **Creating ChatGPT Apps with JavaScript** Bruce Hopkins Jr.,Bruce Hopkins Sr.,2025-06-06 Transform your JavaScript expertise through the power of Open AI API models using Creating ChatGPT Apps with JavaScript This book will guide JavaScript developers to build smart applications while providing tangible knowledge of OpenAI s API for text summarization creating transcripts from audio files generating images

and running models locally on your machine Through hands on projects and code examples readers will discover how to build AI powered apps from scratch such as using embeddings to train a Discord bot to answer customers questions in multiple languages Readers will also learn to dictate text for writing articles or blogs with a localized integration of Whisper and generate hero images with Dall E What s more in the final chapter of this book you ll be able to maximize productivity by creating a Smart Assistant like Alexa or Siri with JavaScript and the new Raspberry Pi 5 From seasoned developers to newcomers this book offers something for everyone Not only will readers learn to build apps with ChatGPT and JavaScript but they will also learn best practices for prompt engineering They ll understand how AI models can enhance workplace efficiency and utilize natural language processing NLP to make interactions with applications feel well natural The end result is expert knowledge in leveraging ChatGPT programmatically and incorporating the technology into diverse applications What You Will Learn Gain a deeper understanding of ChatGPT and how OpenAI s models work and different ways to implement each of their various features Authenticate with ChatGPT and OpenAI s API and learn to send prompts with best practices with prompt engineering Streamline productivity and content creation by leveraging transcription generation for dictation and image generation for creating hero images Stay ahead of the game by incorporating different new features of OpenAI s API and understanding more complex concepts like using GPT 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

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