



Openai 2025 Install

Subrat Gupta



Openai 2025 Install:

ChatGPT 2025 - Das große Benutzerhandbuch Dr. Roman Fessler, Alexander Denz B.Sc., 2025-04-02 Auflage und Stand April 2025 Das umfassende Handbuch für alle ChatGPT Nutzer 2025 von der Basis bis zum Profi Level Mit mehr als 400 Millionen aktiven Nutzern weltweit hat sich ChatGPT als unverzichtbares KI Tool etabliert Die wahre Leistungsfähigkeit des Tools mit seinen über 50 Einstellungsmöglichkeiten erschließt sich jedoch nur jenen die sowohl die Benutzeroberfläche als auch die Kunst des effektiven Prompting beherrschen In diesem aktuellen Benutzerhandbuch Stand April 2025 finden Sie über 150 Screenshots die Ihnen jeden Menupunkt und jede Funktion anschaulich erklären Schritt für Schritt Anleitungen zur Nutzung aller Features GPT Erstellung Canvas Reasoning Memory Deep Research und vieles mehr Fundierte Einführung ins Prompt Engineering mit den besten Techniken und sofort anwendbaren Vorlagen Praxisnahe Vergleiche der verschiedenen ChatGPT Versionen Gratis Plus Team und Pro Expertenwissen zu Datenschutz Sicherheitseinstellungen und optimaler Personalisierung Die klare Struktur des Buches macht es zum idealen Begleiter für Ihre tägliche Arbeit mit ChatGPT Teil I Das Benutzerhandbuch Ausführliche Erklärung der gesamten Benutzeroberfläche Teil II Hilfreiche Informationen Hintergrund und Vergleiche der verschiedenen Versionen Teil III Der Prompting Guide Anleitungen für präzise Anfragen und bessere Ergebnisse Ob Sie ChatGPT für berufliche Zwecke kreative Projekte oder zur Problemlösung nutzen dieses Buch vermittelt Ihnen das nötige Wissen um das volle Potenzial dieser revolutionären KI Technologie auszuschöpfen [Generative AI for Beginners: Practical Guide to ChatGPT, Machine Learning, and AI Applications](#) Caleb Morgan Whitaker ,2025-07-07 Learn Generative AI From Zero to Real Projects with Confidence Curious about AI but overwhelmed by technical jargon Generative AI for Beginners is your clear hands on guide to mastering ChatGPT neural networks and practical AI applications all explained in simple terms for non techies and aspiring creators What You'll Learn Build Generative AI Simplified Explore how models like GPT 4 GANs and VAEs generate text images and audio without getting lost in mathematics Source Generative AI for Beginners A Comprehensive Guide simplifies these concepts for novices ChatGPT Prompt Engineering Learn how to design prompts that elicit useful high quality responses for writing decision making or brainstorming just like top rated beginner AI guides Neural Networks Made Accessible Cover core machine learning ideas like backpropagation supervised vs unsupervised learning and model training using intuitive non technical explanations Practical AI Applications You Can Build Use guided mini projects create a chatbot prompt powered text generator or image generator using free and open source tools and gain real hands on experience Ethics Future Opportunities Understand ethical considerations bias issues and emerging Web3 AI trends so you can build responsibly and stay ahead Why This Book Works Beginner First Jargon Free No prior experience required Learn at your own pace with bite sized chapters Project Based Learning Each section builds a real AI tool not just theory similar to bestsellers that focus on application Up to Date for 2025 Covers current models like GPT 4 open source frameworks like Hugging Face and modern AI applications Balance of Theory Practice Unlike superficial overviews this guide gives you both

understanding and the means to create tangible AI projects Your Gains in Action Benefit You ll Be Able To Understand AI Fundamentals Clearly explain and use generative AI in daily tasks Interact Smart with ChatGPT Create prompts for writing research and business needs Build Real Tools Deploy your own chatbot image generator or text app Upload Use Ethical AI Consider bias consent and best practices in your projects Stay Ahead in AI Trends Understand LLMs neural nets GANs and future AI paths Who Should Read This Beginners eager to start building AI without coding Professionals and students wanting a full AI foundation and skills Creatives and entrepreneurs looking to leverage AI tools in their projects Ready to build useful AI projects in real time Tap Add to Cart for Generative AI for Beginners your step by step roadmap to mastering prompt engineering neural networks and real world AI applications by just reading and doing *Generative AI with LangChain* Dr. Priyanka Singh, Hariom Singh, 2025-04-25

DESCRIPTION AI is redefining how businesses solve problems automate decisions and deliver value LangChain an emerging framework streamlines the integration of large language models into real world applications making AI more actionable and accessible Unlock the power of cutting edge AI with LangChain a revolutionary Python framework designed to simplify the creation of sophisticated AI applications This book begins with the foundational knowledge of AI and LangChain followed by practical tools like Python neural networks and cloud platforms such as AWS and Azure You will explore LangChain s architecture and gain hands on experience integrating LangChain with leading cloud platforms You will discover how to leverage powerful data science tools like Snowflake and Athena for real world AI projects You will analyze AI applications in modern operational frameworks such as DevOps and MLOps and gain insights into the exciting future trends ethical AI practices and real world deployment strategies that are shaping the evolution of AI and LangChain By the end of this book readers will confidently design develop and deploy intelligent AI applications using LangChain You will be equipped to solve real world problems through scalable cloud integrated AI systems with strong coding deployment and data handling skills

WHAT YOU WILL LEARN Understand AI fundamentals LangChain s architecture ethical AI and Python setup Master Python basics control structures functions and modules for AI development Explore LangChain s core components workflow and practical implementation in AI Apply AI including LangChain in DevOps and MLOps for automation and efficiency Explore future AI trends LangChain s evolving role and ethical considerations Integrate LangChain with AWS services for scalable AI deployment and management Utilize Snowflake and Athena with LangChain for real world data driven AI projects

WHO THIS BOOK IS FOR This book is ideal for software developers AI enthusiasts data scientists DevOps engineers and tech professionals aiming to gain practical skills in AI implementation using LangChain Educators and students in computer science will also benefit from its hands on guidance

TABLE OF CONTENTS 1 Introduction to Artificial Intelligence and LangChain 2 Getting Started with Python 3 Understanding LangChain Basics 4 Neural Network with LangChain 5 LangChain and AWS Integration 6 LangChain and Azure Integration 7 Real world Data Science with Snowflake and Athena 8 AI in DevOps and MLOps 9 Future Trends in AI

and LangChain APPENDIX 1 Additional Resources and References APPENDIX 2 Glossary of Terms *Learning LangChain* Mayo Oshin, Nuno Campos, 2025-02-13 If you're looking to build production ready AI applications that can reason and retrieve external data for context awareness you'll need to master a popular development framework and platform for building running and managing agentic applications LangChain is used by several leading companies including Zapier Replit Databricks and many more This guide is an indispensable resource for developers who understand Python or JavaScript but are beginners eager to harness the power of AI Authors Mayo Oshin and Nuno Campos demystify the use of LangChain through practical insights and in depth tutorials Starting with basic concepts this book shows you step by step how to build a production ready AI agent that uses your data Harness the power of retrieval augmented generation RAG to enhance the accuracy of LLMs using external up to date data Develop and deploy AI applications that interact intelligently and contextually with users Make use of the powerful agent architecture with LangGraph Integrate and manage third party APIs and tools to extend the functionality of your AI applications Monitor test and evaluate your AI applications to improve performance Understand the foundations of LLM app development and how they can be used with LangChain **Applying Machine Learning in Science Education Research** Peter Wulff, Marcus Kubsch, Christina Krist, 2025-02-28 This open access textbook offers science education researchers a hands on guide for learning critically examining and integrating machine learning ML methods into their science education research projects These methods power many artificial intelligence AI based technologies and are widely adopted in science education research ML can expand the methodological toolkit of science education researchers and provide novel opportunities to gain insights on science related learning and teaching processes however applying ML poses novel challenges and is not suitable for every research context The volume first introduces the theoretical underpinnings of ML methods and their connections to methodological commitments in science education research It then presents exemplar case studies of ML uses in both formal and informal science education settings These case studies include open source data executable programming code and explanations of the methodological criteria and commitments guiding ML use in each case The textbook concludes with a discussion of opportunities and potential future directions for ML in science education This textbook is a valuable resource for science education lecturers researchers under graduate graduate and postgraduate students seeking new ways to apply ML in their work **AI Agents in Action** Micheal Lanham, 2025-03-04 Create LLM powered autonomous agents and intelligent assistants tailored to your business and personal needs From script free customer service chatbots to fully independent agents operating seamlessly in the background AI powered assistants represent a breakthrough in machine intelligence In *AI Agents in Action* you'll master a proven framework for developing practical agents that handle real world business and personal tasks Author Micheal Lanham combines cutting edge academic research with hands on experience to help you Understand and implement AI agent behavior patterns Design and deploy production ready intelligent agents Leverage the OpenAI Assistants API and

complementary tools Implement robust knowledge management and memory systems Create self improving agents with feedback loops Orchestrate collaborative multi agent systems Enhance agents with speech and vision capabilities You won't find toy examples or fragile assistants that require constant supervision AI Agents in Action teaches you to build trustworthy AI capable of handling high stakes negotiations You'll master prompt engineering to create agents with distinct personas and profiles and develop multi agent collaborations that thrive in unpredictable environments Beyond just learning a new technology you'll discover a transformative approach to problem solving About the technology Most production AI systems require many orchestrated interactions between the user AI models and a wide variety of data sources AI agents capture and organize these interactions into autonomous components that can process information make decisions and learn from interactions behind the scenes This book will show you how to create AI agents and connect them together into powerful multi agent systems About the book In AI Agents in Action you'll learn how to build production ready assistants multi agent systems and behavioral agents You'll master the essential parts of an agent including retrieval augmented knowledge and memory while you create multi agent applications that can use software tools plan tasks autonomously and learn from experience As you explore the many interesting examples you'll work with state of the art tools like OpenAI Assistants API GPT Nexus LangChain Prompt Flow AutoGen and CrewAI What's inside Knowledge management and memory systems Feedback loops for continuous agent learning Collaborative multi agent systems Speech and computer vision About the reader For intermediate Python programmers About the author Micheal Lanham is a software and technology innovator with over 20 years of industry experience He has authored books on deep learning including Manning's Evolutionary Deep Learning Table of Contents 1 Introduction to agents and their world 2 Harnessing the power of large language models 3 Engaging GPT assistants 4 Exploring multi agent systems 5 Empowering agents with actions 6 Building autonomous assistants 7 Assembling and using an agent platform 8 Understanding agent memory and knowledge 9 Mastering agent prompts with prompt flow 10 Agent reasoning and evaluation 11 Agent planning and feedback A Accessing OpenAI large language models B Python development environment **Python GPT Cookbook** Dr. Neil Williams, 2025-03-19

DESCRIPTION GPT has redefined the landscape of AI enabling the creation of powerful language models capable of diverse applications The objective of the Python GPT Cookbook is to equip readers with practical recipes and foundational knowledge to build business solutions using GPT and Python The book is divided into four parts The first covers the basics the second teaches the fundamentals of NLP the third delves into applying GPT in various fields and the fourth provides a conclusion Each chapter includes recipes and practical insights to help readers deepen their understanding and apply the concepts presented This cookbook approach delivers 78 practical recipes including creating OpenAI accounts utilizing playgrounds and API keys You will learn text preprocessing embeddings fine tuning and GPT integration with Hugging Face Learn to implement GPT using PyTorch and TensorFlow convert models and build authenticated actions Applications include chatbots

email summarization DBA copilots and use cases in marketing sales IP and manufacturing By the end of the book readers will have a robust understanding of GPT models and how to use them for real world NLP tasks along with the skills to continue exploring this powerful technology independently

WHAT YOU WILL LEARN Learn Python OpenAI TensorFlow Hugging Face and vector databases Master Python for NLP applications and data manipulation Understand and implement GPT models for various tasks Integrate GPT with various architectural components such as databases third party APIs servers and data pipelines Utilise NLTK PyTorch and TensorFlow for advanced NLP projects Use Jupyter for interactive coding and data analysis

WHO THIS BOOK IS FOR The Python GPT Cookbook is for IT professionals and business innovators who already have basic Python skills Data scientists ML engineers NLP engineers and ML researchers will also find it useful

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Mastering Retrieval-Augmented Generation Prashanth Josyula, Karanbir Singh, 2025-03-21

DESCRIPTION Large language models LLMs like GPT BERT and T5 are revolutionizing how we interact with technology powering virtual assistants content generation and data analysis As their influence grows understanding their architecture capabilities and ethical considerations is more important than ever This book breaks down the essentials of LLMs and explores retrieval augmented generation RAG a powerful approach that combines retrieval systems with generative AI for smarter faster and more reliable results It provides a step by step approach to building advanced intelligent systems that utilize an innovative technique known as the RAG thus making them factually correct context aware and sustainable You will start with foundational knowledge understanding architectures training processes and ethical considerations before diving into the mechanics of RAG learning how retrievers and generators collaborate to improve performance The book introduces essential frameworks like LangChain and LlamaIndex walking you through practical implementations troubleshooting and optimization techniques It explores advanced optimization techniques and offers hands on coding exercises to ensure practical understanding Real world case studies and industry applications help bridge the gap between theory and implementation By the final chapter you will have the skills to design build and optimize RAG powered applications integrating LLMs with retrieval systems creating custom pipelines and scaling for performance Whether you are an experienced AI professional or an aspiring developer this book equips you with the knowledge and tools to stay ahead in the ever evolving world of AI

WHAT YOU WILL LEARN Understand the fundamentals of LLMs Explore RAG and its key components Build GenAI applications using LangChain and LlamaIndex frameworks Optimize retrieval strategies for accurate and grounded AI responses Deploy scalable production ready RAG pipelines with best practices Troubleshoot and fine tune RAG pipelines for optimal performance

WHO THIS BOOK IS FOR This book is for AI practitioners data

scientists students and developers looking to implement RAG using LangChain and LlamaIndex Readers having basic knowledge of Python ML concepts and NLP fundamentals would be able to leverage the knowledge gained to accelerate their careers

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- 8 Building and Optimizing RAG Pipelines with LlamaIndex
- 9 Advanced Techniques with LlamaIndex
- 10 Deploying RAG Models in Production
- 11 Future Trends and Innovations in RAG

Data Insight Foundations Nikita Tkachenko, 2025-04-15 This book is not a comprehensive guide if that's what you're seeking you may want to look elsewhere Instead it serves as a map outlining the necessary tools and topics for your research journey The goal is to build your intuition and provide pointers for where to find more detailed information The chapters are deliberately concise and to the point aiming to expose and enlighten rather than bore you While examples are primarily in R a basic understanding of the language is advantageous but not essential Several chapters especially those focusing on theory require no programming knowledge at all Parts of this book have proven useful to a diverse audience including web developers mathematicians data analysts and economists making the material beneficial regardless of one's background The structure allows for flexible reading paths you may explore the chapters in sequence for a systematic learning experience or navigate directly to the topics most relevant to you

What You Will Learn

- Data Management Master the end to end process of data collection processing validation and imputation using R
- Reproducible Research Understand fundamental theories and achieve transparency with literate programming renv and Git
- Academic Writing Conduct scientific literature reviews and write structured papers and reports with Quarto
- Survey Design Design well structured surveys and manage data collection effectively
- Data Visualization Understand data visualization theory and create well designed and captivating graphics using ggplot2

Who this Book is For Career professionals such as research and data analysts transitioning from academia to a professional setting where production quality significantly impacts career progression Some familiarity with data analytics processes and an interest in learning R or Python are ideal

LLMOps Abi Aryan, 2025-07-10 Here's the thing about large language models they don't play by the old rules Traditional MLOps completely falls apart when you're dealing with GenAI The model hallucinates security assumptions crumble monitoring breaks and agents can't operate Suddenly you're in uncharted territory That's exactly why LLMOps has emerged as its own discipline

LLMOps Managing Large Language Models in Production is your guide to actually running these systems when real users and real money are on the line This book isn't about building cool demos It's about keeping LLM systems running smoothly in the real world Navigate the new roles and processes that LLM operations require Monitor LLM performance when traditional metrics don't tell the whole story Set up evaluations governance and security audits that actually matter for GenAI Wrangle the operational mess of agents RAG systems and evolving prompts Scale infrastructure without burning through your compute budget

Artificial

Intelligence All-in-One For Dummies Chris Minnick, John Paul Mueller, Luca Massaron, Stephanie Diamond, Pam Baker, Daniel Stanton, Shiv Singh, Paul Mladjenovic, Sheryl Lindsell-Roberts, Jeffrey Allan, 2025-05-15 A comprehensive roadmap to using AI in your career and in your life Artificial intelligence is everywhere Major software organizations like Microsoft Google and Apple have built AI directly into products and invited the world to become part of the AI revolution And it s impossible to use these tools to their fullest potential without understanding the basics of what AI is and what it can do Artificial Intelligence All in One For Dummies compiles insight from the expert authors of AI books in the For Dummies series to provide an easy to follow walkthrough for anyone interested in learning how to use AI You ll learn how to put artificial intelligence to work for you and your company in a wide variety of situations from creating office assistants to managing projects and marketing your products Inside the book How to prompt AI platforms like ChatGPT and Copilot while avoiding hallucinations and other bugs Strategies for adding artificial intelligence tools to your company s existing workflows to improve efficiency and generate new opportunities Techniques to improve your programming capabilities with AI or create new AI powered tools Perfect for professionals curious about the potential and pitfalls associated with generative artificial intelligence Artificial Intelligence All in One For Dummies shows you exactly how AI works and how you can apply it in your own professional and personal life

Building Business-Ready Generative AI Systems Denis Rothman, 2025-07-25 Supercharge your business with context aware AI controllers adaptive agents multimodal reasoning functionality neuroscientific memory systems and flexible handler mechanisms that integrate the emerging generative AI models Get with your book PDF copy AI Assistant and Next Gen Reader free Key Features Build an adaptive context aware AI controller with advanced memory strategies Enhance GenAISys with multi domain multimodal reasoning capabilities and Chain of Thought CoT Seamlessly integrate cutting edge OpenAI and DeepSeek models as you see fit Book Description Standalone LLMs no longer deliver sufficient business value on their own This guide moves beyond basic chatbots showing you how to build agentic ChatGPT grade systems capable of sophisticated semantic and sentiment analysis powered by context engineering You ll design AI controller architectures with multi user memory retention to dynamically adapt your system to diverse user and system inputs You ll architect a Retrieval Augmented Generation system with Pinecone to combine instruction driven scenarios Through context engineering you ll minimize token usage maximize response quality and create systems that reason across complex tasks with precision You ll enhance your system s intelligence with multimodal capabilities image generation voice interactions and machine driven reasoning leveraging Chain of Thought and context chaining to address cross domain automation challenges You ll also integrate OpenAI s suite and DeepSeek R1 without disrupting your existing GenAISys ecosystem With context engineering as the backbone every step becomes a deliberate act of shaping model behavior Your GenAISys will apply neuroscience inspired insights to marketing strategies predict human mobility integrate smoothly into human workflows and connect to live external data all wrapped in a polished investor ready interface What you will learn Implement an AI controller with a

conversation AI agent and orchestrator at its core Build contextual awareness with short term long term and cross session memory Design cross domain automation with multimodal reasoning image generation and voice features Expand a CoT agent by integrating consumer memory understanding Integrate cutting edge models of your choice without disrupting your existing GenAISys Connect to real time external data while blocking security breaches Who this book is for This book is for AI and Machine Learning Engineers seeking to enhance their understanding of Generative AI and its enterprise applications It will particularly benefit those interested in building AI agents creating advanced orchestration systems and leveraging AI for automation in marketing production and logistics Software architects and enterprise developers looking to build scalable AI driven systems will also find immense value in this guide No prior superintelligence experience is necessary but familiarity with AI concepts is recommended

Practical IoT Handbook Rodrigo J Hernandez, 2025-05-31 DESCRIPTION The field of the IoT is fundamentally reshaping how physical objects interact with digital systems through enhanced connectivity and embedded intelligence This book serves as an indispensable resource guiding readers through the essential principles and techniques required to unlock the full potential of IoT From foundational concepts to the development of innovative real world applications this handbook offers a structured step by step approach for anyone seeking either a comprehensive introduction or an opportunity to expand their expertise in this transformative domain The book begins with hands on projects that guide readers through the essentials of IoT development combining foundational knowledge with practical application Readers will work with popular development boards like the ESP8266 ESP32 Raspberry Pi Pico and Raspberry Pi 4 while learning key hardware concepts and setting up a development environment using free open source tools such as Arduino IDE Python and Visual Studio Code Core IoT topics include programming microcontrollers interfacing with sensors and actuators and using communication protocols like MQTT CoAP and HTTP The book also covers storing and visualizing data with InfluxDB and Grafana By the end of this book readers will have developed a solid foundation in IoT programming along with the practical skills and theoretical understanding necessary to design build and deploy effective IoT solutions The book prepares readers to undertake a wide range of IoT projects and contribute meaningfully to this rapidly advancing field

WHAT YOU WILL LEARN ESP32 ESP8266 Raspberry Pi interfacing and programming tools Arduino Python VSC Connect and use sensors and actuators with the microcontrollers and the Raspberry Pi 4 computer Learn about open source systems Node RED InfluxDB Grafana Home Assistant and OpenHAB Interface diverse sensors actuators master GPIO MQTT CoAP HTTP protocols Design and implement connected systems for environmental and home automation WHO THIS BOOK IS FOR This book is for students pursuing tech careers tech enthusiasts hobbyists makers and software developers interested in learning IoT programming Basic programming knowledge and familiarity with electronics concepts will be beneficial but not strictly required as the book guides you from the fundamentals

TABLE OF CONTENTS 1 Meet the Boards 2 Installing the Software Environment 3 Microcontrollers Sensors and Actuators 4 Interfacing with Raspberry Pi 5 Connecting IoT Devices using

MQTT 6 CoAP for IoT Connectivity 7 Using HTTP and WebSockets in IoT 8 Storing Internet of Things Data 9 Visualizing Internet of Things Data 10 Building a Weather Station 11 Home Automation **Mastering Text Analytics** Shailendra Kadre,Shailesh Kadre,Subhendu Dey,2025-08-26 This book is a comprehensive guide to mastering Natural Language Processing NLP a rapidly growing field in AI powered text and data analytics It equips you with tools and techniques to extract valuable insights from both structured and unstructured data enabling you to uncover insights beyond the reach of traditional data analysis methods and stay competitive in this evolving domain The book starts with foundational concepts such as collecting and extracting data for NLP projects before progressing to advanced topics like applications of transfer learning in NLP and Large Language Models LLMs Each chapter emphasizes real world applications and includes practical case studies to ensure the knowledge is immediately applicable Throughout the book readers will find Python code demonstrations hands on projects and detailed explanations of key concepts Special features include business use cases from industries like healthcare and customer service practice exercises to reinforce learning and explorations of emerging NLP technologies These elements make the book not only informative but also highly engaging and interactive By the end of the book the reader will have a solid foundation in Generative AI techniques to apply them to complex challenges Whether you re a budding data scientist or a seasoned professional this guide will help you harness the power of AI driven text and data analytics effectively What you will learn Understand NLP with easy to follow explanations examples and Python implementations Explore techniques such as transformers word embeddings and pragmatic analysis in real world contexts Work with real world datasets and apply pre processing tokenization and text extraction using NLP libraries How to build complete NLP pipelines from data collection to model implementation including sentiment analysis and chatbots Learn state of the art methods like deep learning techniques in NLP large language models LLMs and zero shot learning in NLP Who this book is for This book is tailored for data scientists machine learning engineers AI practitioners and software developers seeking to learn NLP techniques and apply them to solve problems **KIMI K2 UNLOCKED** Guillaume Lessard,2025-07-22 This is not just another AI book This is your key to real execution Kimi K2 Unlocked is the ultimate hands on guide for developers coders and innovators who want to build automate and deploy powerful AI workflows using the open agent Kimi K2 Whether you re launching from a local machine integrating Claude grade intelligence or building end to end automation pipelines this book gives you everything you need to get started fast and scale with confidence You ll learn how to Install Kimi K2 locally using vLLM Hugging Face or SGLang Launch real commands that code fix bugs write reports and automate tasks Deploy agentic workflows using prompt chaining file memory and self repair Optimize for Groq Claude and open source LLMs with direct terminal execution Use Kimi K2 across Python HTML CLI and real world projects Monetize your knowledge with included CTA templates and freelance ready tools Included in this package A full quick start deployment guide A complete Claude style prompt pack Use case examples across dev stacks Professional Markdown and PDF layout Designed

for freelance work dev tools and product launches This book turns Kimi K2 into your personal AI operator It works It writes It executes It builds Kimi K2 Unlocked is for real builders No fluff No theory Just the fastest way to get agentic AI working for you

Kubernetes for Generative AI Solutions Ashok Srirama,Sukirti Gupta,2025-06-06 Master the complete Generative AI project lifecycle on Kubernetes K8s from design and optimization to deployment using best practices cost effective strategies and real world examples Key Features Build and deploy your first Generative AI workload on Kubernetes with confidence Learn to optimize costly resources such as GPUs using fractional allocation Spot Instances and automation Gain hands on insights into observability infrastructure automation and scaling Generative AI workloads Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionGenerative AI GenAI is revolutionizing industries from chatbots to recommendation engines to content creation but deploying these systems at scale poses significant challenges in infrastructure scalability security and cost management This book is your practical guide to designing optimizing and deploying GenAI workloads with Kubernetes K8s the leading container orchestration platform trusted by AI pioneers Whether you re working with large language models transformer systems or other GenAI applications this book helps you confidently take projects from concept to production You ll get to grips with foundational concepts in machine learning and GenAI understanding how to align projects with business goals and KPIs From there you ll set up Kubernetes clusters in the cloud deploy your first workload and build a solid infrastructure But your learning doesn t stop at deployment The chapters highlight essential strategies for scaling GenAI workloads in production covering model optimization workflow automation scaling GPU efficiency observability security and resilience By the end of this book you ll be fully equipped to confidently design and deploy scalable secure resilient and cost effective GenAI solutions on Kubernetes What you will learn Explore GenAI deployment stack agents RAG and model fine tuning Implement HPA VPA and Karpenter for efficient autoscaling Optimize GPU usage with fractional allocation MIG and MPS setups Reduce cloud costs and monitor spending with KubeCost tools Secure GenAI workloads with RBAC encryption and service meshes Monitor system health and performance using Prometheus and Grafana Ensure high availability and disaster recovery for GenAI systems Automate GenAI pipelines for continuous integration and delivery Who this book is for This book is for solutions architects product managers engineering leads DevOps teams GenAI developers and AI engineers It s also suitable for students and academics learning about GenAI Kubernetes and cloud native technologies A basic understanding of cloud computing and AI concepts is needed but no prior knowledge of Kubernetes is required

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

Passive Income Mastery Subrat Gupta,2025-07-30 Unlock the Future of Wealth Creation with Passive Income Mastery Are you ready to tap into the most advanced strategies for building passive income in the digital age Passive Income Mastery Unlocking Profits with AI Tools and Money Making Prompts is your ultimate guide to financial freedom revealing how anyone can harness artificial intelligence and smart automation to generate consistent profits This comprehensive book takes you step by step through modern passive income strategies with a strong focus on leveraging AI tools for content creation affiliate marketing e commerce investing and more Discover practical frameworks high impact money making prompts and real world case studies that demonstrate exactly how to create automate and scale your income streams without sacrificing your time Key features include How to select set up and use the best AI tools for passive income Proven prompt templates to maximize profits from chatbots writing and creative platforms Insider strategies for automating content social media affiliate marketing and e commerce Advanced guides for investing and multiplying revenue with AI driven systems Actionable roadmaps expert tips and common pitfalls to avoid for long term success Whether you re an entrepreneur freelancer or anyone seeking financial freedom this book provides the latest techniques and ethical practices for building wealth in the AI powered economy Start unlocking your earning potential and achieve true financial independence today

Mastering LangChain Sanath Raj B Narayan,Nitin Agarwal,2025-10-15 This book provides a comprehensive exploration of LangChain empowering you to effectively harness large language models LLMs for Gen AI applications It focuses on practical implementation and techniques making it a valuable resource for learning LangChain The book starts with foundational topics such as environment setup and building basic chains then delves into key components such as prompt templates tool

integration and memory management You will also explore practical topics such as output parsing embedding models and developing chatbots and retrieval augmented generation RAG systems Additional chapters focus on integrating LangChain with other AI tools and deploying applications while emphasizing best practices for AI ethics and performance By the time you finish this book you ll have the know how to confidently build Generative AI solutions using LangChain Whether you re exploring practical applications or curious about the latest trends this guide gives you the tools and insights to solve real world AI problems You ll be ready to design smart data driven applications and rethink how you approach Generative AI

What You Will Learn Understand the core ideas architecture and essential features of the LangChain framework Create advanced LLM driven workflows and applications that address real world challenges Develop robust Retrieval Augmented Generation RAG systems using LangChain vector databases and proven best practices for retrieving and generating high quality responses

Who This Book Is For Data scientists and AI enthusiasts with basic Python skills who want to use LangChain for advanced development and Python developers interested in building data responsive applications with large language models LLMs

[Azure AI Engineer Associate \(AI-102\) Study Guide](#) Renaldi Gondosubroto,2025-09-09 With the GenAI boom showing no sign of letup the demand for AI skills will only increase with time and innovation Microsoft Azure leads the pack with services for developing and deploying AI solutions so professionals looking to break into this field should consider pursuing certification as an Azure AI Engineer Associate Azure s AI 102 exam isn t a piece of cake but author Renaldi Gondosubroto makes it a great deal more approachable with this comprehensive study guide Packed with expert guidance it covers everything you ll need to know to pass the exam You ll dive deep into all the phases of AI solutions development from requirements definition and design to development deployment and integration along with maintenance performance tuning and monitoring throughout The book also takes you through practical implementation of these systems covering decision support computer vision natural language processing knowledge mining document intelligence and generative AI solutions Understand the core concepts of Azure AI services Develop and deploy AI solutions within Azure s environment Explore integration and security practices with Azure AI services Optimize and troubleshoot AI models on Azure Gain knowledge about building GenAI solutions on Azure and put it into practice

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