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Developing Apps with GPT-4 and ChatGPT Olivier Caelen, Marie-Alice Blete, 2023-08-29 This minibook is a comprehensive guide for Python developers who want to learn how to build applications with large language models Authors Olivier Caelen and Marie Alice Blete cover the main features and benefits of GPT 4 and ChatGPT and explain how they work You ll also get a step by step guide for developing applications using the GPT 4 and ChatGPT Python library including text generation Q A and content summarization tools Written in clear and concise language Developing Apps with GPT 4 and ChatGPT includes easy to follow examples to help you understand and apply the concepts to your projects Python code examples are available in a GitHub repository and the book includes a glossary of key terms Ready to harness the power of large language models in your applications This book is a must You ll learn The fundamentals and benefits of ChatGPT and GPT 4 and how they work How to integrate these models into Python based applications for NLP tasks How to develop applications using GPT 4 or ChatGPT APIs in Python for text generation guestion answering and content summarization among other tasks Advanced GPT topics including prompt engineering fine tuning models for specific tasks plug ins LangChain and more Automated Code Generation from Backlog Items (PACGBI) Mahja Sarschar, 2025-01-31 This book investigates the potential and limitations of using Generative AI GenAI in terms of quality and capability in agile web development projects using React For this purpose the Pipeline for Automated Code Generation from Backlog Items PACGBI was implemented and used in a case study to analyse the AI generated code with a mix method approach The findings demonstrated the ability of GenAI to rapidly generate syntactically correct and functional code with Zero Shot prompting The PACGBI showcases the potential for GenAI to automate the development process especially for tasks with low complexity However this research also identified challenges with code formatting maintainability and user interface implementation attributed to the lack of detailed functional descriptions of the task and the appearance of hallucinations Despite these limitations the book underscores the significant potential of GenAI to accelerate the software development process and highlights the need for a hybrid approach that combines GenAI s strengths with human expertise for complex tasks Further the findings provide valuable insights for practitioners considering GenAI integration into their development processes and set a foundation for future research in this field AI-Driven Project Management Kristian Bainey, 2024-04-02 Accelerate your next project with artificial intelligence and ChatGPT In AI Driven Project Management Harnessing the Power of Artificial Intelligence and ChatGPT to Achieve Peak Productivity and Success veteran IT and project management advisor Kristian Bainey delivers an insightful collection of strategies for automating the administration and management of projects In the book the author focuses on four key areas where project leaders can achieve improved results with AI s data centric capabilities minimizing surprises minimizing bias increasing standards and accelerating decision making You ll also find Primers on the role of AI and ChatGPT in Agile Hybrid and Predictive approaches to project management How to accurately forecast a project with

ChatGPT Techniques for crafting impactful AI strategy using AI project management principles Perfect for managers executives and business leaders everywhere AI Driven Project Management is also a must read for project management professionals tech professionals and enthusiasts and anyone else interested in the intersection of artificial intelligence machine learning and project management The Future of Finance with ChatGPT and Power BI James Bryant, Aloke Mukherjee, 2023-12-29 Enhance decision making transform your market approach and find investment opportunities by exploring AI finance and data visualization with ChatGPT's analytics and Power BI's visuals Key Features Automate Power BI with ChatGPT for quick and competitive financial insights giving you a strategic edge Make better data driven decisions with practical examples of financial analysis and reporting Learn the step by step integration of ChatGPT financial analysis and Power BI for real world success Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionIn today s rapidly evolving economic landscape the combination of finance analytics and artificial intelligence AI heralds a new era of decision making Finance and data analytics along with AI can no longer be seen as separate disciplines and professionals have to be comfortable in both in order to be successful This book combines finance concepts visualizations through Power BI and the application of AI and ChatGPT to provide a more holistic perspective After a brief introduction to finance and Power BI you will begin with Tesla s data driven financial tactics before moving to John Deere s AgTech strides all through the lens of AI Salesforce's adaptation to the AI revolution offers profound insights while Moderna's navigation through the biotech frontier during the pandemic showcases the agility of AI focused companies Learn from Silicon Valley Bank's demise and prepare for CrowdStrike's defensive maneuvers against cyber threats With each chapter you'll gain mastery over new investing ideas Power BI tools and integrate ChatGPT into your workflows This book is an indispensable ally for anyone looking to thrive in the financial sector By the end of this book you ll be able to transform your approach to investing and trading by blending AI driven analysis data visualization and real world applications What you will learn Dominate investing trading and reporting with ChatGPT s game changing insights Master Power BI for dynamic financial visuals custom dashboards and impactful charts Apply AI and ChatGPT for advanced finance analysis and natural language processing NLP in news analysis Tap into ChatGPT for powerful market sentiment analysis to seize investment opportunities Unleash your financial analysis potential with data modeling source connections and Power BI integration Understand the importance of data security and adopt best practices for using ChatGPT and Power BI Who this book is for This book is for students academics data analysts and AI enthusiasts eager to leverage ChatGPT for financial analysis and forecasting It s also suitable for investors traders financial pros business owners and entrepreneurs interested in analyzing financial data using Power BI To get started with this book understanding the fundamentals of finance investment trading and data analysis along with proficiency in tools like Power BI and Microsoft Excel is necessary While prior knowledge of AI and ChatGPT is beneficial it is not a prerequisite Communication Research in the Big Data Era Xiaogun Zhang, 2024-10-11 In this book Xiaogun Zhang

argues that acquiring knowledge of machine learning ML and artificial intelligence AI tools is increasingly imperative for the trajectory of communication research in the era of big data Rather than simply being a matter of keeping pace with technological advances Zhang posits that these tools are strategically imperative for navigating the complexities of the digital media landscape and big data analysis and they provide powerful methodologies empowering researchers to uncover nuanced insights and trends within the vast expanse of digital information Although this can be a daunting notion for researchers without a formal background in mathematics or computer science this book highlights the substantial rewards of investing time and effort into the endeavor mastery of ML and AI not only facilitates more sophisticated big data analyses but also fosters interdisciplinary collaborations enhancing the richness and depth of research outcomes This book will serve as a foundational resource for communication scholars by providing essential knowledge and techniques to effectively leverage ML and AI at the intersection of communication research and data science 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 Brayo 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

Joint Ventures Involving Tax-Exempt Organizations, 2025 Cumulative Supplement Michael I. Sanders, 2025-12-09 A comprehensive review of the latest developments for tax exempt organizations engaged in joint ventures In the 2025 Cumulative Supplement to the fourth edition of Joint Ventures Involving Tax Exempt Organizations veteran tax attorney Michael I Sanders delivers an essential update to the premier text on the subject of joint ventures with tax exempt organizations You ll discover every relevant and recent development in the liability of and consequences to exempt organizations participating in joint ventures with for profit and other tax exempt entities This authoritative guide offers unmatched access to relevant IRC provisions Treasury regulations IRS rulings relevant judicial rulings and legislative developments that impact exempt organizations considering or involved in joint ventures You ll also find Sample models checklists and numerous citations to Internal Revenue Code sections Treasury Regulations case law and IRS rulings Suggestions for structuring joint ventures and minimizing the risk of audit or penalties Written by a recognized expert in this complex and rapidly evolving field the 2025 Cumulative Supplement is a must read resource for tax attorneys accountants and professionals working with tax exempt organizations

Machine Learning Upgrade Kristen Kehrer, Caleb

Kaiser, 2024-07-29 A much needed guide to implementing new technology in workspaces From experts in the field comes Machine Learning Upgrade A Data Scientist's Guide to MLOps LLMs and ML Infrastructure a book that provides data scientists and managers with best practices at the intersection of management large language models LLMs machine learning and data science This groundbreaking book will change the way that you view the pipeline of data science The authors provide an introduction to modern machine learning showing you how it can be viewed as a holistic end to end system not just shiny new gadget in an otherwise unchanged operational structure By adopting a data centric view of the world you can begin to see unstructured data and LLMs as the foundation upon which you can build countless applications and business solutions This book explores a whole world of decision making that hasn t been codified yet enabling you to forge the future using emerging best practices Gain an understanding of the intersection between large language models and unstructured data Follow the process of building an LLM powered application while leveraging MLOps techniques such as data versioning and experiment tracking Discover best practices for training fine tuning and evaluating LLMs Integrate LLM applications within larger systems monitor their performance and retrain them on new data This book is indispensable for data professionals and business leaders looking to understand LLMs and the entire data science pipeline 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 **Azure AI-102 Certification Essentials** Peter T. Lee, 2025-08-14 Go beyond AI 102 certification by mastering the foundations of Azure AI concepts and services reinforced through practical labs and real world examples Key Features Solidify your understanding with targeted guestions at the end of each chapter Assess your knowledge of key concepts with over 45 exam style questions complete with detailed explanations Get hands on experience with GitHub projects along with ongoing support from the author on GitHub Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionWritten by a seasoned solutions architect and Microsoft AI professional with over 25 years of IT experience Azure AI 102 Certification Essentials will help you gain the skills and knowledge needed to confidently pass the Azure AI 102 certification exam and advance your career This comprehensive guide covers all of the exam objectives from designing AI solutions to integrating AI models into Azure services By combining theoretical concepts with visual examples hands on exercises and real world use cases the chapters teach you how to effectively apply your new found knowledge The book emphasizes responsible AI practices addressing fairness reliability privacy and security while guiding you through testing AI models with diverse data and navigating legal considerations Featuring the latest Azure AI tools and technologies each chapter concludes with hands on exercises to reinforce your learning culminating in Chapter 11 s comprehensive set of 45 mock questions that simulate the actual exam and help you assess your exam readiness By the end of this book you ll be able to confidently design implement and integrate AI solutions on Azure while achieving this highly sought after certification What you will learn Learn core concepts relating to AI LLMs NLP and generative AI Build and deploy with Azure AI Foundry CI CD and containers Manage and secure Azure AI services with built in tools Apply responsible AI using Azure AI Content Safety Perform OCR and analysis with Azure AI Vision Build apps with the Azure AI Language and Speech services Explore knowledge mining with Azure AI Search and Content Understanding Implement RAG and fine tuning with Azure OpenAI Build agents using Azure AI Foundry Agent Service and Semantic Kernel Who this book is

for If you re preparing for the Azure AI 102 certification exam this book is for you Developers engineers and career transitioners moving from traditional software development to AI focused roles can use this guide to deepen their understanding of AI within the Azure ecosystem This book is also beneficial for students and educators looking to apply AI ML concepts using Azure No prior experience in AI ML is required as this book provides comprehensive coverage of exam topics with detailed explanations practical examples and hands on exercises to build your confidence and expertise

Transformers for Natural Language Processing and Computer Vision Denis Rothman, 2024-02-29 The definitive quide 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

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provide a holistic understanding of AI starting with its origins and tracing its evolution through the ages from its humble beginnings to the cutting edge technologies of today Readers wil gain insights into the different types of AI and the fundamental principles that underpin their construction You will get a comprehensive understanding of the algorithms that power AI systems Discover the different model types and their specific applications enabling you to select the most suitable model for your project The book delves deep into the revolutionary models of Openai Google and Microsoft unraveling their capabilities and showcasing real world use cases Gain insight into their remarkable abilities and witness practical applications in everyday life Unlock the power of numerous AI models via Hugging Face a renowned platform for AI innovation Learn how to effortlessly integrate API connections and fine tune essential parameters to maximize AI efficiency Craft effective prompts to elicit superior results from AI models by perfecting both user inputs and system prompts Delve into the novel approach of leveraging external sources to enhance AI predictions Uncover the mystery behind Agents and master their application for optimal AI performance The book is designed for both non developers and developers offering valuable insights and resources for AI projects It serves as a comprehensive guide for beginners who want to grasp the fundamentals as well as for seasoned professionals in search of advanced strategies providing a rich source of knowledge and hands on advice in the intriguing domain of Artificial Intelligence This is the second edition of this essential AI guidebook We ve given it a fresh update to align with today s cutting edge advancements in artificial intelligence AI It includes detailed explanations on the latest AI models and sophisticated techniques that will empower you to harness AI effectively

ChatGPT for Conversational AI and Chatbots Adrian Thompson,2024-07-30 Explore ChatGPT technologies to create state of the art chatbots and voice assistants and prepare to lead the AI revolution Key Features Learn how to leverage ChatGPT to create innovative conversational AI solutions for your organization Harness LangChain and delve into step by step LLM application development for conversational AI Gain insights into security privacy and the future landscape of large language models and conversational AI Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionChatGPT for Conversational AI and Chatbots is a definitive resource for exploring conversational AI ChatGPT and large language models This book introduces the fundamentals of ChatGPT and conversational AI automation You ll explore the application of ChatGPT in conversation design the use of ChatGPT as a tool to create conversational experiences and a range of other practical applications As you progress you ll delve into LangChain a dynamic framework for LLMs covering topics such as prompt engineering chatbot memory using vector stores and validating responses Additionally you ll learn about creating and using LLM enabling tools monitoring and fine tuning LangChain UI tools such as LangFlow and the LangChain ecosystem You ll also cover popular use cases such as using ChatGPT in conjunction with your own data Later the book focuses on creating a ChatGPT powered chatbot that can comprehend and respond to queries directly from your unique data sources The book then guides you through building chatbot UIs with ChatGPT API and some of the tools and best practices available

By the end of this book you ll be able to confidently leverage ChatGPT technologies to build conversational AI solutions What you will learn Gain a solid understanding of ChatGPT and its capabilities and limitations Understand how to use ChatGPT for conversation design Discover how to use advanced LangChain techniques such as prompting memory agents chains vector stores and tools Create a ChatGPT chatbot that can answer questions about your own data Develop a chatbot powered by ChatGPT API Explore the future of conversational AI LLMs and ChatGPT alternatives Who this book is for This book is for tech savvy readers conversational AI practitioners engineers product owners business analysts and entrepreneurs wanting to integrate ChatGPT into conversational experiences and explore the possibilities of this game changing technology Anyone curious about using internal data with ChatGPT and looking to stay up to date with the developments in large language models will also find this book helpful Some expertise in coding and standard web design concepts would be useful along with familiarity with conversational AI terminology though not essential AI-Assisted Programming Tom Taulli, 2024-04-10 Get practical advice on how to leverage AI development tools for all stages of code creation including requirements planning design coding debugging testing and documentation With this book beginners and experienced developers alike will learn how to use a wide range of tools from general purpose LLMs ChatGPT Gemini and Claude to code specific systems GitHub Copilot Tabnine Cursor and Amazon CodeWhisperer You ll also learn about more specialized generative AI tools for tasks such as text to image creation Author Tom Taulli provides a methodology for modular programming that aligns effectively with the way prompts create AI generated code This guide also describes the best ways of using general purpose LLMs to learn a programming language explain code or convert code from one language to another This book examines The core capabilities of AI based development tools Pros cons and use cases of popular systems such as GitHub Copilot and Amazon CodeWhisperer Ways to use ChatGPT Gemini Claude and other generic LLMs for coding Using AI development tools for the software development lifecycle including requirements planning coding debugging and testing Prompt engineering for development Using AI assisted programming for tedious tasks like creating regular expressions starter code object oriented programming classes and GitHub Actions How to use AI based low code and no code tools such as to create professional UIs

The Self-Taught Cloud Computing Engineer Dr. Logan Song,2023-09-22 Transform into a cloud savvy professional by mastering cloud technologies through hands on projects and expert guidance paving the way for a thriving cloud computing career Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Gain a solid foundation in cloud computing with a structured easy to follow guide Develop practical skills across AWS Azure and Google Cloud covering compute storage networking data security and AI Work on real life industrial projects business use cases and personal cloud career development Book DescriptionAs cloud computing continues to revolutionize IT professionals face the challenge of keeping up with rapidly evolving technologies This book provides a clear roadmap for mastering cloud concepts developing hands on expertise and obtaining professional certifications making it an essential resource for those looking to advance

their careers in cloud computing Starting with a focus on the Amazon cloud you ll be introduced to fundamental AWS cloud services followed by advanced AWS cloud services in the domains of data machine learning and security Next you ll build proficiency in Microsoft Azure cloud and Google Cloud Platform GCP by examining the common attributes of the three clouds differentiating their unique features along with leveraging real life cloud project implementations on these cloud platforms Through hands on projects and real world applications you ll gain the skills needed to work confidently across different cloud platforms The book concludes with career development guidance including certification paths and industry insights to help you succeed in the cloud computing landscape Walking through this cloud computing book you ll systematically establish a robust footing in AWS Azure and GCP and emerge as a cloud savvy professional equipped with cloud certificates to validate your skills What you will learn Develop core skills needed to work with AWS Azure and GCP Gain proficiency in compute storage and networking services across multi cloud and hybrid cloud environments Integrate cloud databases big data and machine learning services in multi cloud environments Design and develop data pipelines encompassing data ingestion storage processing and visualization in the clouds Implement machine learning pipelines in multi cloud environment Secure cloud infrastructure ecosystems with advanced cloud security services Who this book is for This book is ideal for IT professionals looking to transition into cloud computing as well as experienced cloud practitioners seeking to deepen their knowledge Whether you re a beginner with basic computing experience or an industry professional aiming to expand your expertise this comprehensive guide provides the skills and insights needed to excel in the cloud domain Applications with Microsoft Semantic Kernel Lucas A. Meyer, 2024-06-21 Unlock the power of GenAI by effortlessly linking your C and Python apps with cutting edge models orchestrating diverse AI services with finesse and crafting bespoke applications through immersive real world examples Key Features Link your C and Python applications with the latest AI models from OpenAI Combine and orchestrate different AI services such as text and image generators Create your own AI apps with real world use case examples that show you how to use basic generative AI create images process documents use a vector database Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionIn the fast paced world of AI developers are constantly seeking efficient ways to integrate AI capabilities into their apps Microsoft Semantic Kernel simplifies this process by using the GenAI features from Microsoft and OpenAI Written by Lucas A Meyer a Principal Research Scientist in Microsoft's AI for Good Lab this book helps you get hands on with Semantic Kernel It begins by introducing you to different generative AI services such as GPT 3 5 and GPT 4 demonstrating their integration with Semantic Kernel You ll then learn to craft prompt templates for reuse across various AI services and variables Next you ll learn how to add functionality to Semantic Kernel by creating your own plugins The second part of the book shows you how to combine multiple plugins to execute complex actions and how to let Semantic Kernel use its own AI to solve complex problems by calling plugins including the ones made by you The book concludes by teaching you how to use vector databases to expand

the memory of your AI services and how to help AI remember the context of earlier requests You ll also be guided through several real world examples of applications such as RAG and custom GPT agents By the end of this book you ll have gained the knowledge you need to start using Semantic Kernel to add AI capabilities to your applications What you will learn Write reusable AI prompts and connect to different AI providers Create new plugins that extend the capabilities of AI services Understand how to combine multiple plugins to execute complex actions Orchestrate multiple AI services to accomplish a task Leverage the powerful planner to automatically create appropriate AI calls Use vector databases as additional memory for your AI tasks Deploy your application to ChatGPT making it available to hundreds of millions of users Who this book is for This book is for beginner level to experienced NET or Python software developers who want to quickly incorporate the latest AI technologies into their applications without having to learn the details of every new AI service Product managers with some development experience will find this book helpful while creating proof of concept applications This book requires working knowledge of programming basics Joint Ventures Involving Tax-Exempt Organizations, 2024 Cumulative Supplement Michael I. Sanders, 2025-01-15 A comprehensive revised and expanded guide covering tax exempt organizations engaging in joint ventures Joint Ventures Involving Tax Exempt Organizations Fourth Edition examines the liability of and consequences to exempt organizations participating in joint ventures with for profit and other tax exempt entities This authoritative guide provides unbridled access to relevant IRC provisions Treasury regulations IRS rulings and pertinent judicial decisions and legislative developments that impact exempt organizations involved in joint ventures Features in depth analysis of the IRS s requirements for structuring joint ventures to protect a nonprofit s exemption as well as to minimize UBIT Includes sample models checklists and numerous citations to Internal Revenue Code sections Treasury Regulations case law and IRS rulings Presents models guidelines and suggestions for structuring joint ventures and minimizing the risk of audit Contains detailed coverage of new Internal Revenue Code requirements impacting charitable hospitals including Section 501 r and related provisions university ventures revised Form 990 with a focus on nonprofits engaged in joint ventures the IRS s emphasis on good governance practices international activities by nonprofits and a comprehensive examination of the New Market Tax Credits and Low Income Housing Tax Credits arena Written by a noted expert in the field Joint Ventures Involving Tax Exempt Organizations Fourth Edition is the most in depth discussion of this critical topic

Data Science Solutions on Azure Julian Soh, Priyanshi Singh, 2024-11-18 This revamped and updated book focuses on the latest in AI technology Generative AI It builds on the first edition by moving away from traditional data science into the area of applied AI using the latest breakthroughs in Generative AI Based on real world projects this edition takes a deep look into new concepts and approaches such as Prompt Engineering testing and grounding of Large Language Models fine tuning and implementing new solution architectures such as Retrieval Augmented Generation RAG You will learn about new embedded AI technologies in Search such as Semantic and Vector Search Written with a view on how to implement Generative AI in

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Table of Contents Openai Prices Sign In

- 1. Understanding the eBook Openai Prices Sign In
 - The Rise of Digital Reading Openai Prices Sign In
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Openai Prices Sign In
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Openai Prices Sign In
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Openai Prices Sign In
 - Personalized Recommendations
 - Openai Prices Sign In User Reviews and Ratings
 - Openai Prices Sign In and Bestseller Lists
- 5. Accessing Openai Prices Sign In Free and Paid eBooks
 - Openai Prices Sign In Public Domain eBooks
 - Openai Prices Sign In eBook Subscription Services
 - Openai Prices Sign In Budget-Friendly Options
- 6. Navigating Openai Prices Sign In eBook Formats
 - o ePub, PDF, MOBI, and More
 - o Openai Prices Sign In Compatibility with Devices
 - Openai Prices Sign In Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Openai Prices Sign In
 - Highlighting and Note-Taking Openai Prices Sign In
 - o Interactive Elements Openai Prices Sign In
- 8. Staying Engaged with Openai Prices Sign In

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Openai Prices Sign In
- 9. Balancing eBooks and Physical Books Openai Prices Sign In
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Openai Prices Sign In
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Openai Prices Sign In
 - Setting Reading Goals Openai Prices Sign In
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Openai Prices Sign In
 - o Fact-Checking eBook Content of Openai Prices Sign In
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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