



Openai Best Install

Lei Shi

A red circular graphic with a gradient, appearing as a stylized arrow or a decorative element, positioned to the right of the 'Lei Shi' text.

Openai Best Install:

Prompt Engineering for Generative AI James Phoenix, Mike Taylor, 2024-05-16 Large language models LLMs and diffusion models such as ChatGPT and Stable Diffusion have unprecedented potential Because they have been trained on all the public text and images on the internet they can make useful contributions to a wide variety of tasks And with the barrier to entry greatly reduced today practically any developer can harness LLMs and diffusion models to tackle problems previously unsuitable for automation With this book you ll gain a solid foundation in generative AI including how to apply these models in practice When first integrating LLMs and diffusion models into their workflows most developers struggle to coax reliable enough results from them to use in automated systems Authors James Phoenix and Mike Taylor show you how a set of principles called prompt engineering can enable you to work effectively with AI Learn how to empower AI to work for you This book explains The structure of the interaction chain of your program s AI model and the fine grained steps in between How AI model requests arise from transforming the application problem into a document completion problem in the model training domain The influence of LLM and diffusion model architecture and how to best interact with it How these principles apply in practice in the domains of natural language processing text and image generation and code [Quick Start Guide to Large Language Models](#) Sinan Ozdemir, 2023-09-20 The Practical Step by Step Guide to Using LLMs at Scale in Projects and Products Large Language Models LLMs like ChatGPT are demonstrating breathtaking capabilities but their size and complexity have deterred many practitioners from applying them In Quick Start Guide to Large Language Models pioneering data scientist and AI entrepreneur Sinan Ozdemir clears away those obstacles and provides a guide to working with integrating and deploying LLMs to solve practical problems Ozdemir brings together all you need to get started even if you have no direct experience with LLMs step by step instructions best practices real world case studies hands on exercises and more Along the way he shares insights into LLMs inner workings to help you optimize model choice data formats parameters and performance You ll find even more resources on the companion website including sample datasets and code for working with open and closed source LLMs such as those from OpenAI GPT 4 and ChatGPT Google BERT T5 and Bard EleutherAI GPT J and GPT Neo Cohere the Command family and Meta BART and the LLaMA family Learn key concepts pre training transfer learning fine tuning attention embeddings tokenization and more Use APIs and Python to fine tune and customize LLMs for your requirements Build a complete neural semantic information retrieval system and attach to conversational LLMs for retrieval augmented generation Master advanced prompt engineering techniques like output structuring chain of thought and semantic few shot prompting Customize LLM embeddings to build a complete recommendation engine from scratch with user data Construct and fine tune multimodal Transformer architectures using opensource LLMs Align LLMs using Reinforcement Learning from Human and AI Feedback RLHF RLAIIF Deploy prompts and custom fine tuned LLMs to the cloud with scalability and evaluation pipelines in mind By balancing the potential of both open and closed source models

Quick Start Guide to Large Language Models stands as a comprehensive guide to understanding and using LLMs bridging the gap between theoretical concepts and practical application Giada Pistilli Principal Ethicist at HuggingFace A refreshing and inspiring resource Jam packed with practical guidance and clear explanations that leave you smarter about this incredible new field Pete Huang author of The Neuron Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details

Developing Apps with GPT-4 and ChatGPT Olivier Caelen,Marie-Alice Blete,2024-07-10 This book provides an ideal 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 GPT 3 5 models and explain how they work You ll also get a step by step guide for developing applications using the OpenAI Python library including text generation Q A and smart assistants 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 Fundamentals and benefits of GPT 4 and GPT 3 5 models including the main features and how they work How to integrate these models into Python based applications leveraging natural language processing capabilities and overcoming specific LLM related challenges Examples of applications demonstrating the OpenAI API in Python for tasks including text generation question answering content summarization classification and more Advanced LLM topics such as prompt engineering fine tuning models for specific tasks RAG plug ins LangChain LlamaIndex GPTs and assistants Olivier Caelen is a machine learning researcher at Worldline and teaches machine learning courses at the University of Brussels Marie Alice Blete a software architect and data engineer in Worldline s R D department is interested in performance and latency issues associated with AI solutions

AI-assisted Programming for Web and Machine Learning Dr. Muralidhar Kurni,2025-10-08 DESCRIPTION Artificial intelligence is redefining how software is created enabling developers to code faster improve accuracy and bring innovative ideas to life In today s competitive technology landscape AI assisted programming is no longer optional it s a core skill for building modern web applications and machine learning solutions This book systematically guides you through the whole development cycle You will start with the foundations of understanding AI assisted programming setting up your environment and mastering prompt engineering You will then discover how AI can accelerate front end and back end web development enhance debugging and optimize performance You will also explore data preprocessing model creation training and deploying optimized solutions with the help of real world examples case studies and hands on exercises ensuring you can apply every concept in practice Also by mastering prompt engineering you will be able to generate debug and optimize code across both these high demand fields By the end of this book you will have the confidence and skills to integrate AI into your workflow automate time consuming tasks build intelligent applications and deliver impactful future ready solutions WHAT

YOU WILL LEARN Apply prompt engineering effectively for web and ML projects Develop AI powered front end and back end applications efficiently Automate debugging testing and performance optimization with AI Integrate AI tools seamlessly into full stack development workflows Train fine tune and deploy scalable ML models in the cloud Understand AI assisted programming concepts and set up development tools Preprocess data and create AI driven machine learning pipelines WHO THIS BOOK IS FOR This book is for learners who want to explore the power of AI assisted programming in web development and machine learning Software engineers web developers and data scientists who possess foundational programming skills ideally with Python or JavaScript can also use it to upgrade their skills TABLE OF CONTENTS 1 AI in Programming 2 Setting up Your AI Environment 3 Prompt Engineering 4 AI in Front end Development 5 AI for Back end Development 6 Debugging and Optimization with AI 7 Data Preprocessing with AI 8 Building and Training Machine Learning Models 9 Deploying Optimized ML Models 10 Real world Applications 11 Future Innovations and Ethics in AI **Unlocking the Potential of**

OpenAI's ChatGPT DAVID YAO, Have you heard of OpenAI s ChatGPT but have no idea what it is or how to use it Look no further This book provides a comprehensive introduction to this revolutionary language model In this book the author takes you through the history of ChatGPT and its capabilities as well as its practical applications in fields such as customer service content creation and data analysis You ll also learn how ChatGPT works and what sets it apart from other language models But that s not all the book also provides hands on examples and tutorials to help you put your newfound knowledge into practice The author will also address the limitations of the model and provide tips on how to achieve optimal results Whether you re a data scientist business owner or student this book is a must read for anyone looking to understand and utilize the power of ChatGPT With its comprehensive understanding of ChatGPT and its potential to transform the way we work and learn this book is sure to be a valuable resource So why wait Get your hands on a copy today and let OpenAI s ChatGPT work for you **Chat GPT 4 Unveiled: A Comprehensive Beginner's Guide to Mastering AI-Powered Conversations** Guido

Van,2024-03-16 Dive into the fascinating world of artificial intelligence with Chat GPT 4 Unveiled This comprehensive beginner s guide is your roadmap to mastering AI powered conversations with ease Whether you re new to the realm of AI or seeking to deepen your understanding this book offers a clear and accessible introduction to Chat GPT 4 Unlock the secrets behind crafting engaging and meaningful conversations with AI From understanding the fundamentals of natural language processing to harnessing the power of Chat GPT 4 s advanced capabilities this guide takes you on a journey from novice to expert With practical tips insightful examples and hands on exercises Chat GPT 4 Unveiled empowers you to navigate the complexities of AI conversation with confidence Say goodbye to confusion and hello to conversational excellence with this indispensable resource **Praxis Einstieg Large Language Models** Sinan Ozdemir,2024-05-14 Der Schnellstart in die praktische Arbeit mit LLMs Das Buch bietet einen berblick ber zentrale Konzepte und Techniken von LLMs wie z B ChatGPT und zeigt das Potenzial von Open Source und Closed Source Modellen Es erl utert wie Large Language Models funktionieren

und wie sie für Aufgaben des Natural Language Processing NLP genutzt werden Auch für interessierte Nicht Data Scientists mit Python Kenntnissen verständlich Themen z B die ChatGPT API Prompt Engineering Chatbot Personas Cloud Bereitstellung deckt auch GPT 4 ab Large Language Models LLMs wie ChatGPT sind enorm leistungsfähig aber auch sehr komplex Praktikerinnen und Praktiker stehen daher vor vielfältigen Herausforderungen wenn sie LLMs in ihre eigenen Anwendungen integrieren wollen In dieser Einführung räumt Data Scientist und KI Unternehmer Sinan Ozdemir diese Hindernisse aus dem Weg und bietet einen Leitfaden für den Einsatz von LLMs zur Lösung praktischer Probleme des Natural Language Processings Sinan Ozdemir hat alles zusammengestellt was Sie für den Einstieg benötigen Schritt für Schritt Anleitungen Best Practices Fallstudien aus der Praxis und vieles mehr Er stellt die Funktionsweise von LLMs vor und unterstützt Sie so dabei das für Ihre Anwendung passende Modell und geeignete Datenformate und Parameter auszuwählen Dabei zeigt er das Potenzial sowohl von Closed Source als auch von Open Source LLMs wie GPT 3 GPT 4 und ChatGPT BERT und T5 GPT J und GPT Neo Cohere sowie BART Lernen Sie die Schlüsselkonzepte kennen Transfer Learning Feintuning Attention Embeddings Tokenisierung und mehr Nutzen Sie APIs und Python um LLMs an Ihre Anforderungen anzupassen Beherrschen Sie Prompt Engineering Techniken wie Ausgabe Strukturierung Gedankenketten und Few Shot Prompting Passen Sie LLM Embeddings an um eine Empfehlungsengine mit eigenen Benutzerdaten neu zu erstellen Konstruieren Sie multimodale Transformer Architekturen mithilfe von Open Source LLMs Optimieren Sie LLMs mit Reinforcement Learning from Human and AI Feedback RLHF RLAIIF Deployen Sie Prompts und benutzerdefinierte feingetunte LLMs in die Cloud

How to use ChatGPT Bernhard Gaum, 2023-03-29 How to use ChatGPT is a comprehensive guide to understanding and utilizing one of the most powerful natural language processing NLP models available today Developed by OpenAI ChatGPT is a state of the art model that uses a transformer based architecture and pre training on a massive amount of text data to generate human like text This book is designed to provide readers with a solid understanding of ChatGPT including its capabilities and potential use cases It begins with an overview of the model and its development and then goes on to provide step by step instructions for setting up and using the model We also delve deeper into the techniques for adapting ChatGPT to specific tasks and domains such as fine tuning the model through pre training transfer learning and data augmentation In addition to providing the basics this book also covers advanced topics related to using ChatGPT including different parameters and settings that can be used to control the model's behavior and more complex use cases such as generating code or composing music We also showcase some of the most successful and innovative applications of the model including case studies and real world examples The book concludes with a discussion of the limitations and challenges of using ChatGPT in practical settings and resources for further learning and exploring the model Whether you are a business professional researcher developer or simply someone who is interested in natural language processing this book will provide you with the knowledge and tools you need to effectively use ChatGPT in your work

Building AI Intensive Python Applications Rachelle Palmer, Ben

Perlmutter,Ashwin Gangadhar,Nicholas Larew,Sigfrido Narváez,Thomas Rueckstiess,Henry Weller,Richmond Alake,Shubham Ranjan,2024-09-06 Master retrieval augmented generation architecture and fine tune your AI stack along with discovering real world use cases and best practices to create powerful AI apps Key Features Get to grips with the fundamentals of LLMs vector databases and Python frameworks Implement effective retrieval augmented generation strategies with MongoDB Atlas Optimize AI models for performance and accuracy with model compression and deployment optimization Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionThe era of generative AI is upon us and this book serves as a roadmap to harness its full potential With its help you ll learn the core components of the AI stack large language models LLMs vector databases and Python frameworks and see how these technologies work together to create intelligent applications The chapters will help you discover best practices for data preparation model selection and fine tuning and teach you advanced techniques such as retrieval augmented generation RAG to overcome common challenges such as hallucinations and data leakage You ll get a solid understanding of vector databases implement effective vector search strategies refine models for accuracy and optimize performance to achieve impactful results You ll also identify and address AI failures to ensure your applications deliver reliable and valuable results By evaluating and improving the output of LLMs you ll be able to enhance their performance and relevance By the end of this book you ll be well equipped to build sophisticated AI applications that deliver real world value What you will learn Understand the architecture and components of the generative AI stack Explore the role of vector databases in enhancing AI applications Master Python frameworks for AI development Implement Vector Search in AI applications Find out how to effectively evaluate LLM output Overcome common failures and challenges in AI development Who this book is for This book is for software engineers and developers looking to build intelligent applications using generative AI While the book is suitable for beginners a basic understanding of Python programming is required to make the most of it *CHATGPT AUTOMATION WITH PYTHON* Vance Pike,2025-07-20 Discover how to combine the power of Python and ChatGPT to streamline tasks boost productivity and save valuable time even if you re not an expert This concise hands on guide helps you set up the OpenAI API and start automating practical real life workflows with working Python scripts From content generation to document summarization you ll learn how to write code that actually does something useful Inside you ll learn how to l Write automatic replies for emails and messages l Summarize long PDFs and text documents with just a few lines of code l Dynamically generate content like blog posts or captions l Create a reusable script template to automate new tasks quickly l Handle API errors and troubleshoot basic issues Whether you re a beginner with basic Python skills or a freelancer looking to work smarter this book shows you how to get results fast Perfect for Python learners ready to try something useful Developers curious about AI integration Busy creators and freelancers looking to save time Skip the fluff Learn by doing In less than 90 minutes you ll be automating tasks using real usable Python code *Large Language Models* John Atkinson-Abutridy,2024-10-17 This book serves as an introduction

to the science and applications of Large Language Models LLMs You ll discover the common thread that drives some of the most revolutionary recent applications of artificial intelligence AI from conversational systems like ChatGPT or BARD to machine translation summary generation question answering and much more At the heart of these innovative applications is a powerful and rapidly evolving discipline natural language processing NLP For more than 60 years research in this science has been focused on enabling machines to efficiently understand and generate human language The secrets behind these technological advances lie in LLMs whose power lies in their ability to capture complex patterns and learn contextual representations of language How do these LLMs work What are the available models and how are they evaluated This book will help you answer these and many other questions With a technical but accessible introduction You will explore the fascinating world of LLMs from its foundations to its most powerful applications You will learn how to build your own simple applications with some of the LLMs Designed to guide you step by step with six chapters combining theory and practice along with exercises in Python on the Colab platform you will master the secrets of LLMs and their application in NLP From deep neural networks and attention mechanisms to the most relevant LLMs such as BERT GPT 4 LLaMA Palm 2 and Falcon this book guides you through the most important achievements in NLP Not only will you learn the benchmarks used to evaluate the capabilities of these models but you will also gain the skill to create your own NLP applications It will be of great value to professionals researchers and students within AI data science and beyond

ChatGPT for Cybersecurity Cookbook Clint Bodungen, 2024-03-29 Master ChatGPT and the OpenAI API and harness the power of cutting edge generative AI and large language models to revolutionize the way you perform penetration testing threat detection and risk assessment Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Enhance your skills by leveraging ChatGPT to generate complex commands write code and create tools Automate penetration testing risk assessment and threat detection tasks using the OpenAI API and Python programming Revolutionize your approach to cybersecurity with an AI powered toolkit Book Description Are you ready to unleash the potential of AI driven cybersecurity This cookbook takes you on a journey toward enhancing your cybersecurity skills whether you re a novice or a seasoned professional By leveraging cutting edge generative AI and large language models such as ChatGPT you ll gain a competitive advantage in the ever evolving cybersecurity landscape ChatGPT for Cybersecurity Cookbook shows you how to automate and optimize various cybersecurity tasks including penetration testing vulnerability assessments risk assessment and threat detection Each recipe demonstrates step by step how to utilize ChatGPT and the OpenAI API to generate complex commands write code and even create complete tools You ll discover how AI powered cybersecurity can revolutionize your approach to security providing you with new strategies and techniques for tackling challenges As you progress you ll dive into detailed recipes covering attack vector automation vulnerability scanning GPT assisted code analysis and more By learning to harness the power of generative AI you ll not only expand your skillset but also increase your efficiency By the end of this

cybersecurity book you ll have the confidence and knowledge you need to stay ahead of the curve mastering the latest generative AI tools and techniques in cybersecurity What you will learn Master ChatGPT prompt engineering for complex cybersecurity tasks Use the OpenAI API to enhance and automate penetration testing Implement artificial intelligence driven vulnerability assessments and risk analyses Automate threat detection with the OpenAI API Develop custom AI enhanced cybersecurity tools and scripts Perform AI powered cybersecurity training and exercises Optimize cybersecurity workflows using generative AI powered techniques Who this book is for This book is for cybersecurity professionals IT experts and enthusiasts looking to harness the power of ChatGPT and the OpenAI API in their cybersecurity operations Whether you re a red teamer blue teamer or security researcher this book will help you revolutionize your approach to cybersecurity with generative AI powered techniques A basic understanding of cybersecurity concepts along with familiarity in Python programming is expected Experience with command line tools and basic knowledge of networking concepts and web technologies is also required **Building 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

Python Machine Learning By Example Yuxi (Hayden) Liu, 2024-07-31 Author Yuxi Hayden Liu teaches machine learning from the fundamentals to building NLP transformers and multimodal models with best practice tips and real world examples using PyTorch TensorFlow scikit learn and pandas Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Discover new and updated content on NLP transformers PyTorch and computer vision modeling Includes a dedicated chapter on best practices and additional best practice tips throughout the book to improve your ML solutions Implement ML models such as neural networks and linear and logistic regression from scratch Book Description The fourth edition of Python Machine Learning By Example is a comprehensive guide for beginners and experienced machine learning practitioners who want to learn more advanced techniques such as multimodal modeling Written by experienced machine learning author and ex Google machine learning engineer Yuxi Hayden Liu this edition emphasizes best practices providing invaluable insights for machine learning engineers data scientists and analysts Explore advanced techniques including two new chapters on natural language processing transformers with BERT and GPT and multimodal computer vision models with PyTorch and Hugging Face You ll learn key modeling techniques using practical examples such as predicting stock prices and creating an image search engine This hands on machine learning book navigates through complex challenges bridging the gap between theoretical understanding and practical application Elevate your machine learning and deep learning expertise tackle intricate problems and unlock the potential of advanced techniques in machine learning with this authoritative guide What you will learn Follow machine learning best practices throughout data preparation and model development Build and improve image classifiers using convolutional neural networks CNNs and transfer learning Develop and fine tune neural networks using TensorFlow and PyTorch Analyze sequence data and make predictions using recurrent neural networks RNNs transformers and CLIP Build classifiers using support vector machines SVMs and boost performance with PCA Avoid overfitting using regularization feature selection and more Who this book is for This expanded fourth edition is ideal for data scientists ML engineers analysts and students with Python programming knowledge The real world examples best practices and code prepare anyone undertaking their first serious ML project

The MCP Playbook Gavin Dex Thorne, 2025-06-15 Transform Your PC Into a Smart Automated Powerhouse Step into the future of personal computing with a comprehensive guide that arms you with the skills to harness AI agents and revolutionize your desktop experience Whether you re a developer tech enthusiast or productivity seeker this book unveils the secrets behind making your computer work smarter not harder Picture automating complex tasks across multiple applications

effortlessly from managing emails and calendars to orchestrating creative projects in Photoshop Blender or even Excel spreadsheets Dive deep into the mechanics of the Model Context Protocol MCP the groundbreaking framework that allows language models like Claude GPT and Ollama to seamlessly control your PC s software ecosystem No more tedious manual clicks or repetitive chores just smooth intelligent automation tailored to your needs Learn how to set up your environment for flawless AI integration build your first workflows that respond to natural language prompts and master advanced prompt engineering techniques to handle error cases and optimize performance Explore the delicate balance between cloud powered AI and local models ensuring privacy and efficiency in your automated routines You ll also discover how to add voice control customize MCP for specialized applications and maintain robust security practices while automating your digital workspace Featuring real world case studies troubleshooting tips and ethical insights this book offers a rich practical roadmap for anyone eager to enhance their productivity and creativity through AI driven desktop automation Take control of your PC like never before and embrace an intelligent hands free computing era

Hands-On Artificial Intelligence for IoT Amita

Kapoor,2019-01-31 Build smarter systems by combining artificial intelligence and the Internet of Things two of the most talked about topics today Key FeaturesLeverage the power of Python libraries such as TensorFlow and Keras to work with real time IoT dataProcess IoT data and predict outcomes in real time to build smart IoT modelsCover practical case studies on industrial IoT smart cities and home automationBook Description There are many applications that use data science and analytics to gain insights from terabytes of data These apps however do not address the challenge of continually discovering patterns for IoT data In Hands On Artificial Intelligence for IoT we cover various aspects of artificial intelligence AI and its implementation to make your IoT solutions smarter This book starts by covering the process of gathering and preprocessing IoT data gathered from distributed sources You will learn different AI techniques such as machine learning deep learning reinforcement learning and natural language processing to build smart IoT systems You will also leverage the power of AI to handle real time data coming from wearable devices As you progress through the book techniques for building models that work with different kinds of data generated and consumed by IoT devices such as time series images and audio will be covered Useful case studies on four major application areas of IoT solutions are a key focal point of this book In the concluding chapters you will leverage the power of widely used Python libraries TensorFlow and Keras to build different kinds of smart AI models By the end of this book you will be able to build smart AI powered IoT apps with confidence What you will learnApply different AI techniques including machine learning and deep learning using TensorFlow and KerasAccess and process data from various distributed sourcesPerform supervised and unsupervised machine learning for IoT dataImplement distributed processing of IoT data over Apache Spark using the MLLib and H2O ai platformsForecast time series data using deep learning methodsImplementing AI from case studies in Personal IoT Industrial IoT and Smart CitiesGain unique insights from data obtained from wearable devices and smart devicesWho this book is for If you are a data

science professional or a machine learning developer looking to build smart systems for IoT Hands On Artificial Intelligence for IoT is for you If you want to learn how popular artificial intelligence AI techniques can be used in the Internet of Things domain this book will also be of benefit A basic understanding of machine learning concepts will be required to get the best out of this book [Programming Large Language Models with Azure Open AI](#) Francesco Esposito,2024-04-03 Use LLMs to build better business software applications Autonomously communicate with users and optimize business tasks with applications built to make the interaction between humans and computers smooth and natural Artificial Intelligence expert Francesco Esposito illustrates several scenarios for which a LLM is effective crafting sophisticated business solutions shortening the gap between humans and software equipped machines and building powerful reasoning engines Insight into prompting and conversational programming with specific techniques for patterns and frameworks unlock how natural language can also lead to a new advanced approach to coding Concrete end to end demonstrations featuring Python and ASP NET Core showcase versatile patterns of interaction between existing processes APIs data and human input Artificial Intelligence expert Francesco Esposito helps you Understand the history of large language models and conversational programming Apply prompting as a new way of coding Learn core prompting techniques and fundamental use cases Engineer advanced prompts including connecting LLMs to data and function calling to build reasoning engines Use natural language in code to define workflows and orchestrate existing APIs Master external LLM frameworks Evaluate responsible AI security privacy and accuracy concerns Explore the AI regulatory landscape Build and implement a personal assistant Apply a retrieval augmented generation RAG pattern to formulate responses based on a knowledge base Construct a conversational user interface For IT Professionals and Consultants For software professionals architects lead developers programmers and Machine Learning enthusiasts For anyone else interested in natural language processing or real world applications of human like language in software [AI Agents in Action](#) Micheal Lanham,2025-03-25 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 **LLM Prompt Engineering for Developers** Aymen El Amri,2024-05-23 Explore the dynamic field of LLM prompt engineering with this book Starting with fundamental NLP principles progressing to sophisticated prompt engineering methods this book serves as the perfect comprehensive guide Key Features In depth coverage of prompt engineering from basics to advanced techniques Insights into cutting edge methods like AutoCoT and transfer learning Comprehensive resource sections including prompt databases and tools Book DescriptionLLM Prompt Engineering For Developers begins by laying the groundwork with essential principles of natural language processing NLP setting the stage for more complex topics It methodically guides readers

through the initial steps of understanding how large language models work providing a solid foundation that prepares them for the more intricate aspects of prompt engineering As you proceed the book transitions into advanced strategies and techniques that reveal how to effectively interact with and utilize these powerful models From crafting precise prompts that enhance model responses to exploring innovative methods like few shot and zero shot learning this resource is designed to unlock the full potential of language model technology This book not only teaches the technical skills needed to excel in the field but also addresses the broader implications of AI technology It encourages thoughtful consideration of ethical issues and the impact of AI on society By the end of this book readers will master the technical aspects of prompt engineering appreciate the importance of responsible AI development making them well rounded professionals ready to focus on the advancement of this cutting edge technology

What you will learn

- Understand the principles of NLP and their application in LLMs
- Set up and configure environments for developing with LLMs
- Implement few shot and zero shot learning techniques
- Enhance LLM outputs through AutoCoT and self consistency methods
- Apply transfer learning to adapt LLMs to new domains
- Develop practical skills in testing scoring prompt effectiveness

Who this book is for

The target audience for LLM Prompt Engineering For Developers includes software developers AI enthusiasts technical team leads advanced computer science students and AI researchers with a basic understanding of artificial intelligence Ideal for those looking to deepen their expertise in large language models and prompt engineering this book serves as a practical guide for integrating advanced AI driven projects and research into various workflows assuming some foundational programming knowledge and familiarity with AI concepts

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