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Generative AI in Action Amit Bahree, 2024-11-26 Generative AI can transform your business by streamlining the process of creating text images and code This book will show you how to get in on the action Generative AI in Action is the comprehensive and concrete guide to generative AI you've been searching for It introduces both AI's fundamental principles and its practical applications in an enterprise context from generating text and images for product catalogs and marketing campaigns to technical reporting and even writing software Inside author Amit Bahree shares his experience leading Generative AI projects at Microsoft for nearly a decade starting well before the current GPT revolution Inside Generative AI in Action you will find A practical overview of of generative AI applications Architectural patterns integration guidance and best practices for generative AI The latest techniques like RAG prompt engineering and multi modality The challenges and risks of generative AI like hallucinations and jailbreaks How to integrate generative AI into your business and IT strategy Generative AI in Action is full of real world use cases for generative AI showing you where and how to start integrating this powerful technology into your products and workflows You'll benefit from tried and tested implementation advice as well as application architectures to deploy GenAI in production at enterprise scale About the technology In controlled environments deep learning systems routinely surpass humans in reading comprehension image recognition and language understanding Large Language Models LLMs can deliver similar results in text and image generation and predictive reasoning Outside the lab though generative AI can both impress and fail spectacularly So how do you get the results you want Keep reading About the book Generative AI in Action presents concrete examples insights and techniques for using LLMs and other modern AI technologies successfully and safely In it you'll find practical approaches for incorporating AI into marketing software development business report generation data storytelling and other typically human tasks You'll explore the emerging patterns for GenAI apps master best practices for prompt engineering and learn how to address hallucination high operating costs the rapid pace of change and other common problems What's inside Best practices for deploying Generative AI apps Production quality RAG Adapting GenAI models to your specific domain About the reader For enterprise architects developers and data scientists interested in upgrading their architectures with generative AI About the author Amit Bahree is Principal Group Product Manager for the Azure AI engineering team at Microsoft The technical editor on this book was Wee Hyong Tok Table of Contents Part 1 1 Introduction to generative AI 2 Introduction to large language models 3 Working through an API Generating text 4 From pixels to pictures Generating images 5 What else can AI generate Part 2 6 Guide to prompt engineering 7 Retrieval augmented generation The secret weapon 8 Chatting with your data 9 Tailoring models with model adaptation and fine tuning Part 3 10 Application architecture for generative AI apps 11 Scaling up Best practices for production deployment 12 Evaluations and benchmarks 13 Guide to ethical GenAI Principles practices and pitfalls A The book's GitHub repository B Responsible AI tools

Reinforcement Learning Abhishek Nandy, Manisha Biswas, 2017-12-07

Master reinforcement learning a popular area of machine learning starting with the basics discover how agents and the environment evolve and then gain a clear picture of how they are inter related You ll then work with theories related to reinforcement learning and see the concepts that build up the reinforcement learning process Reinforcement Learning discusses algorithm implementations important for reinforcement learning including Markov s Decision process and Semi Markov Decision process The next section shows you how to get started with Open AI before looking at Open AI Gym You ll then learn about Swarm Intelligence with Python in terms of reinforcement learning The last part of the book starts with the TensorFlow environment and gives an outline of how reinforcement learning can be applied to TensorFlow There s also coverage of Keras a framework that can be used with reinforcement learning Finally you ll delve into Google s Deep Mind and see scenarios where reinforcement learning can be used What You ll Learn Absorb the core concepts of the reinforcement learning process Use advanced topics of deep learning and AI Work with Open AI Gym Open AI and Python Harness reinforcement learning with TensorFlow and Keras using Python Who This Book Is For Data scientists machine learning and deep learning professionals developers who want to adapt and learn reinforcement learning

Einstieg in Python Michael Inden, 2024-12-10 Richtig programmieren von Anfang an Umfangreiche Praxisprojekte laden zum Experimentieren ein Sourcecode und Beispiele sind als Download verf gbar Neu in der 2 Auflage Bildverarbeitung und Large Language Models Mit diesem Buch gelingt Ihnen der Einstieg in Python mit Leichtigkeit denn Sie werden auf Ihrer Entdeckungsreise vom erfahrenen Trainer Michael Inden begleitet Zahlreiche Codebeispiele verdeutlichen die Lerninhalte und laden zum Experimentieren ein Erg nzend werden Python spezifische Besonderheiten erkl rt die Ihre Programme von Anfang an pythonic stilistisch sch n machen Das Erlernen wird durch einen interaktiven Einstieg mit dem Python Kommandozeileninterpreter erleichtert in dem Sie viele Beispiele direkt ausprobieren k nnen und so schnelle Lernerfolge erzielen Au erdem erfahren Sie wie Sie eine Entwicklungsumgebung und die objektorientierte Programmierung sinnvoll einsetzen Zahlreiche Aufgaben und Musterl sungen runden die Kapitel ab sodass Sie schnell eigene Projekte verwirklichen k nnen Diese 2 Auflage erg nzt Kapitel zur Bildverarbeitung sowie zu popul ren LLMs und deren vielf ltigen Einsatzm glichkeiten Schlie lich werden die Neuerungen aus Python 3.13 im Anhang vorgestellt

RAG-Driven Generative AI Denis Rothman, 2024-09-30 Minimize AI hallucinations and build accurate custom generative AI pipelines with RAG using embedded vector databases and integrated human feedback Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Implement RAG s traceable outputs linking each response to its source document to build reliable multimodal conversational agents Deliver accurate generative AI models in pipelines integrating RAG real time human feedback improvements and knowledge graphs Balance cost and performance between dynamic retrieval datasets and fine tuning static data Book Description RAG Driven Generative AI provides a roadmap for building effective LLM computer vision and generative AI systems that balance performance and costs This book offers a detailed exploration of RAG and how to

design manage and control multimodal AI pipelines By connecting outputs to traceable source documents RAG improves output accuracy and contextual relevance offering a dynamic approach to managing large volumes of information This AI book shows you how to build a RAG framework providing practical knowledge on vector stores chunking indexing and ranking You ll discover techniques to optimize your project s performance and better understand your data including using adaptive RAG and human feedback to refine retrieval accuracy balancing RAG with fine tuning implementing dynamic RAG to enhance real time decision making and visualizing complex data with knowledge graphs You ll be exposed to a hands on blend of frameworks like LlamaIndex and Deep Lake vector databases such as Pinecone and Chroma and models from Hugging Face and OpenAI By the end of this book you will have acquired the skills to implement intelligent solutions keeping you competitive in fields from production to customer service across any project What you will learn Scale RAG pipelines to handle large datasets efficiently Employ techniques that minimize hallucinations and ensure accurate responses Implement indexing techniques to improve AI accuracy with traceable and transparent outputs Customize and scale RAG driven generative AI systems across domains Find out how to use Deep Lake and Pinecone for efficient and fast data retrieval Control and build robust generative AI systems grounded in real world data Combine text and image data for richer more informative AI responses Who this book is for This book is ideal for data scientists AI engineers machine learning engineers and MLOps engineers If you are a solutions architect software developer product manager or project manager looking to enhance the decision making process of building RAG applications then you ll find this book useful

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

INSIGHTS AT THE NEXUS GENERATIVE ARTIFICIAL INTELLIGENCE -

FROM BASICS TO BREAKTHROUGHS Neha Dhaliwal, 2024-06-14 Have you ever imagined that simply by picturing something and typing an image or video could be generated How fascinating is that This concept once relegated to the realm of science fiction has become a tangible reality in our modern world The idea that our thoughts and words can be transformed into visual content is not only captivating but a testament to human innovation and creativity Figure 1 1 The machine generated image based on text input Even as data scientists many of us never anticipated that AI could reach a point where it could generate text for a specific use case The struggles we faced in writing code or the countless hours spent searching on Google for the right solution were once common challenges Yet the technological landscape has shifted dramatically and those laborious tasks have become relics of the past How has this become possible The answer lies in the groundbreaking advancements in deep learning and natural language processing NLP

Building Neo4j-Powered Applications with LLMs Ravindranatha Anthapu, Siddhant Agarwal, 2025-06-20 A comprehensive guide to building cutting edge generative AI applications using Neo4j's knowledge graphs and vector search capabilities Key Features Design vector search and recommendation systems with LLMs using Neo4j GenAI Haystack Spring AI and LangChain4j Apply best practices for graph exploration modeling reasoning and performance optimization Build and consume Neo4j knowledge graphs and deploy your GenAI apps to Google Cloud Purchase of the print or Kindle book includes a free PDF eBook Book Description Embark on an expert led journey into building LLM powered applications using Retrieval Augmented Generation RAG and Neo4j knowledge graphs Written by Ravindranatha Anthapu Principal Consultant at Neo4j and Siddhant Agrawal a Google Developer Expert in GenAI this comprehensive guide is your starting point for exploring alternatives to LangChain covering frameworks such as Haystack Spring AI and LangChain4j As LLMs large language models reshape how businesses interact with customers this book helps you develop intelligent applications using RAG architecture and knowledge graphs with a strong focus on overcoming one of AI's most persistent challenges mitigating hallucinations You'll learn how to model and construct Neo4j knowledge graphs with Cypher to enhance the accuracy and relevance of LLM responses Through real world use cases like vector powered search and personalized recommendations the authors help you build hands on experience with Neo4j GenAI integrations across Haystack and Spring AI With access to a companion GitHub repository you'll work through code heavy examples to confidently build and deploy GenAI apps on Google Cloud By the end of this book you'll have the skills to ground LLMs with RAG and Neo4j optimize graph performance and strategically select the right cloud platform for your GenAI applications What you will learn Design populate and integrate a Neo4j knowledge graph with RAG Model data for knowledge graphs Integrate AI powered search to enhance knowledge exploration Maintain and monitor your AI search application with Haystack Use LangChain4j and Spring AI for recommendations and personalization Seamlessly deploy your applications to Google Cloud Platform Who this book is for This LLM book is for database developers and data

scientists who want to leverage knowledge graphs with Neo4j and its vector search capabilities to build intelligent search and recommendation systems Working knowledge of Python and Java is essential to follow along Familiarity with Neo4j the Cypher query language and fundamental concepts of databases will come in handy **Transformers for Natural**

Language Processing Denis Rothman, 2022-03-25 OpenAI's GPT 3 ChatGPT GPT 4 and Hugging Face transformers for language tasks in one book Get a taste of the future of transformers including computer vision tasks and code writing and assistance Purchase of the print or Kindle book includes a free eBook in PDF format Key Features Improve your productivity with OpenAI's ChatGPT and GPT 4 from prompt engineering to creating and analyzing machine learning models Pretrain a BERT based model from scratch using Hugging Face Fine tune powerful transformer models including OpenAI's GPT 3 to learn the logic of your data Book Description Transformers are well transforming the world of AI There are many platforms and models out there but which ones best suit your needs Transformers for Natural Language Processing 2nd Edition guides you through the world of transformers highlighting the strengths of different models and platforms while teaching you the problem solving skills you need to tackle model weaknesses You'll use Hugging Face to pretrain a RoBERTa model from scratch from building the dataset to defining the data collator to training the model If you're looking to fine tune a pretrained model including GPT 3 then Transformers for Natural Language Processing 2nd Edition shows you how with step by step guides The book investigates machine translations speech to text text to speech question answering and many more NLP tasks It provides techniques to solve hard language problems and may even help with fake news anxiety read chapter 13 for more details You'll see how cutting edge platforms such as OpenAI have taken transformers beyond language into computer vision tasks and code creation using DALL E 2 ChatGPT and GPT 4 By the end of this book you'll know how transformers work and how to implement them and resolve issues like an AI detective What you will learn Discover new techniques to investigate complex language problems Compare and contrast the results of GPT 3 against T5 GPT 2 and BERT based transformers Carry out sentiment analysis text summarization casual speech analysis machine translations and more using TensorFlow PyTorch and GPT 3 Find out how ViT and CLIP label images including blurry ones and create images from a sentence using DALL E Learn the mechanics of advanced prompt engineering for ChatGPT and GPT 4 Who this book is for If you want to learn about and apply transformers to your natural language and image data this book is for you You'll need a good understanding of Python and deep learning and a basic understanding of NLP to benefit most from this book Many platforms covered in this book provide interactive user interfaces which allow readers with a general interest in NLP and AI to follow several chapters And don't worry if you get stuck or have questions this book gives you direct access to our AI ML community to help guide you on your transformers journey Revolutionizing Youth Mental Health with Ethical AI

Sharmistha Chatterjee, Azadeh Dindarian, Usha Rengaraju, 2025-08-16 This book is your comprehensive guide into the dynamic intersection of artificial intelligence AI and youth mental health It aims to bridge the gap between cutting edge AI

technology and its transformative potential in addressing youth mental health challenges The book's content is structured into three key parts each focusing on different facets of AI applications in youth mental health The first part provides a comprehensive background on the current state of youth mental health analyzing the prevalence of mental health issues and identifying the unique challenges faced by the digital generation In the second part we explore the foundational principles of AI and its potential for revolutionizing mental health care including natural language processing machine learning and predictive analytics In this section you will find in depth case studies and real world applications that showcase how AI driven interventions have already transformed mental health care for youth across diverse contexts Finally the third part delves into ethical considerations fairness privacy concerns and the responsible integration of AI in youth mental health care to design long term sustainable solutions This book offers a unique and holistic perspective making it an indispensable resource for anyone passionate about leveraging AI for the betterment of youth mental health Through this book you will gain the knowledge and tools needed to design and implement effective AI driven solutions that have the potential to transform the mental health landscape for the benefit of future generations

What You Will Learn

- Understand the current state of youth mental health exploring the prevalence of mental health issues among the digital generation
- Understand natural language processing machine learning and predictive analytics
- Know how AI interventions are already transforming mental health care for youth in diverse contexts
- Be aware of fairness privacy concerns and the responsible integration of AI in youth mental health care
- Get familiar with the role of GenAI in the mental health domain and how AI agents can be a game changer

Who This Book Is For To equip academics and researchers in the AI computer science and digital mental health domain as well as AI application developers with a deeper understanding of how AI powered innovations can enhance the well being of youth and innovation managers and policymakers who are interested in exploring the AI use cases

Python Projekte für die Praxis Florian Dalwigk, 2024-10-21 Du bist neugierig aufs Programmieren und möchtest spannende Projekte mit Python umsetzen Dann ist das Buch Python Projekte für die Praxis von Florian Dalwigk genau das Richtige für dich Als erfolgreicher Content Creator mit über 100 000 Abonnenten auf YouTube und als Autor des Bestsellers Python für Einsteiger weiß Florian Dalwigk wie man komplexe Themen einfach und anschaulich erklärt In diesem Buch lernst du alles was du für den Einstieg in die Programmierung mit Python brauchst Du entdeckst die Welt der GUI Programmierung mit Tkinter lernst wie man mit APIs arbeitet und erhältst eine Einführung ins Prompt Engineering Ein kleiner Python Crashkurs hilft dir die Grundlagen der Programmierung zu wiederholen bevor es an die spannenden Projekte geht Doch dieses Buch bietet mehr als nur Theorie Florian Dalwigk legt großen Wert darauf dass du das Gelernte direkt in die Praxis umsetzen kannst Mit vielen abwechslungsreichen Projekten Coding Challenges und Aufgaben kannst du dein Wissen vertiefen und sofort anwenden Programmieren lernt man am besten indem man tatsächliche Probleme löst und genau das erwartet dich hier Ob du Webseiten API Anwendungen oder Programme für Browser programmieren möchtest dieses Buch bietet dir die passenden

Projekte Ideal für Einsteiger Dank vieler Schritt für Schritt Anleitungen und einem kleinen Python Crashkurs sind keine Vorkenntnisse nötig Abwechslungsreicher Mix Neben Textpassagen erwarten dich viele Code Beispiele Videos und Challenges Praxisnah Mit den zahlreichen Projekten und Aufgaben kannst du dein Wissen sofort anwenden und ein beeindruckendes Portfolio aufbauen Interaktives Lernvergnügen Die Projekte sind so gestaltet dass sie Spaß machen und gleichzeitig deine Fähigkeiten erweitern Community Feedback Dieses Buch ist das langersehnte Werk das sich Florians Community gewünscht hat Zögere nicht länger und starte deine Reise in die Welt der Programmierung Bestell jetzt das Buch Python Projekte für Einsteiger und entdecke wie viel Spaß und Erfolg du beim Programmieren haben kannst

Reinforcement Learning Algorithms with Python Andrea Lonza, 2019-10-18 Develop self learning algorithms and agents using TensorFlow and other Python tools frameworks and libraries Key Features Learn develop and deploy advanced reinforcement learning algorithms to solve a variety of tasks Understand and develop model free and model based algorithms for building self learning agents Work with advanced Reinforcement Learning concepts and algorithms such as imitation learning and evolution strategies Book Description Reinforcement Learning RL is a popular and promising branch of AI that involves making smarter models and agents that can automatically determine ideal behavior based on changing requirements This book will help you master RL algorithms and understand their implementation as you build self learning agents Starting with an introduction to the tools libraries and setup needed to work in the RL environment this book covers the building blocks of RL and delves into value based methods such as the application of Q learning and SARSA algorithms You will learn how to use a combination of Q learning and neural networks to solve complex problems Furthermore you will study the policy gradient methods TRPO and PPO to improve performance and stability before moving on to the DDPG and TD3 deterministic algorithms This book also covers how imitation learning techniques work and how Dagger can teach an agent to drive You will discover evolutionary strategies and black box optimization techniques and see how they can improve RL algorithms Finally you will get to grips with exploration approaches such as UCB and UCB1 and develop a meta algorithm called ESBAS By the end of the book you will have worked with key RL algorithms to overcome challenges in real world applications and be part of the RL research community What you will learn Develop an agent to play CartPole using the OpenAI Gym interface Discover the model based reinforcement learning paradigm Solve the Frozen Lake problem with dynamic programming Explore Q learning and SARSA with a view to playing a taxi game Apply Deep Q Networks DQNs to Atari games using Gym Study policy gradient algorithms including Actor Critic and REINFORCE Understand and apply PPO and TRPO in continuous locomotion environments Get to grips with evolution strategies for solving the lunar lander problem Who this book is for If you are an AI researcher deep learning user or anyone who wants to learn reinforcement learning from scratch this book is for you You will also find this reinforcement learning book useful if you want to learn about the advancements in the field Working knowledge of Python is necessary **Artificial Intelligence: How Does It Work? And How to Use It?** Dr Sabry Fattah, 2024-03-10

In a world increasingly driven by technological advancements Artificial Intelligence AI has emerged as a game changer transforming industries and revolutionizing the way we live and work This book is a must read guide that takes you on an exhilarating journey into the realm of AI unraveling its inner workings and empowering you to leverage its potential This book is meticulously crafted to 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 will 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

PyTorch 1.x Reinforcement Learning Cookbook Yuxi (Hayden) Liu, 2019-10-31 Implement reinforcement learning techniques and algorithms with the help of real world examples and recipes Key Features Use PyTorch 1.x to design and build self learning artificial intelligence AI models Implement RL algorithms to solve control and optimization challenges faced by data scientists today Apply modern RL libraries to simulate a controlled environment for your projects

Book Description Reinforcement learning RL is a branch of machine learning that has gained popularity in recent times It allows you to train AI models that learn from their own actions and optimize their behavior PyTorch has also emerged as the preferred tool for training RL models because of its efficiency and ease of use With this book you'll explore the important RL concepts and the implementation of algorithms in PyTorch 1.x The recipes in the book along with real world examples will help you master various RL techniques such as dynamic programming Monte Carlo simulations temporal difference and Q learning You'll also gain insights into industry specific applications of these techniques Later chapters will guide you through solving problems such as the multi armed bandit problem and the cartpole problem using the multi armed bandit algorithm

and function approximation You ll also learn how to use Deep Q Networks to complete Atari games along with how to effectively implement policy gradients Finally you ll discover how RL techniques are applied to Blackjack Gridworld environments internet advertising and the Flappy Bird game By the end of this book you ll have developed the skills you need to implement popular RL algorithms and use RL techniques to solve real world problems What you will learn Use Q learning and the state action reward state action SARSA algorithm to solve various Gridworld problems Develop a multi armed bandit algorithm to optimize display advertising Scale up learning and control processes using Deep Q Networks Simulate Markov Decision Processes OpenAI Gym environments and other common control problems Select and build RL models evaluate their performance and optimize and deploy them Use policy gradient methods to solve continuous RL problems Who this book is for Machine learning engineers data scientists and AI researchers looking for quick solutions to different reinforcement learning problems will find this book useful Although prior knowledge of machine learning concepts is required experience with PyTorch will be useful but not necessary

Microsoft Outlook Guide to Success Kevin Pitch, Struggling with a chaotic inbox and disorganized calendar Want to enhance your productivity but feel held back by Microsoft Outlook s complexity Searching for a step by step guide to navigate through Outlook with ease and efficiency Dive deep into the functionalities of Microsoft Outlook and seamlessly incorporate e mail practices and calendar management into your daily routine irrespective of your current level of expertise Elevate your skills QUICK EFFORTLESS LEARNING Engage with easy to follow instructions and insightful screenshots mastering Outlook s features swiftly with no fuss COVERING THE BASICS TO ADVANCED This guide is for everyone Novices and seasoned users alike will discover valuable insights from crafting and organizing emails to optimizing tasks all explained with clarity and precision REDUCE TIME AND STRESS Adopt intelligent practices and strategies detailed in the guide to minimize the time and stress associated with managing emails and schedules What you will learn COMMAND YOUR INBOX Transform your inbox from a daunting mess into a streamlined hub of productivity with detailed visual step by step instructions and screenshots MASTER YOUR CALENDAR Understand the ins and outs of the Outlook Calendar schedule like a pro and never miss an important appointment again EXPLORE HIDDEN GEMS Uncover less known yet powerful features learn to automate email handling and discover functionalities even experienced users might not know ACCESS ANYWHERE Learn how to synchronize your Outlook data across different devices for easy access anytime anywhere FROM BEGINNER TO EXPERT Navigate through the learning curve smoothly and become the Outlook expert everyone turns to in the office Ready for a transformative journey towards Outlook mastery and enhanced professional efficiency Click Buy Now and let s get started on your email challenge

Large Language Models Projects Pere Martra, 2024-09-18 This book offers you a hands on experience using models from OpenAI and the Hugging Face library You will use various tools and work on small projects gradually applying the new knowledge you gain The book is divided into three parts Part one covers techniques and libraries Here you ll explore different techniques through small examples

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

ChatGPT eBook GURMEET SINGH DANG, 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 DescriptionAre 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

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

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

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

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