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Denis Rothman

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name Denis Rothman.

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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

Intermediate Python and Large Language Models Dilyan Grigorov, 2025-06-27 Harness the power of Large Language Models LLMs to build cutting edge AI applications with Python and LangChain This book provides a hands on approach to understanding implementing and deploying LLM powered solutions equipping developers data scientists and AI enthusiasts with the tools to create real world AI applications The

journey begins with an introduction to LangChain covering its core concepts integration with Python and essential components such as prompt engineering memory management and retrieval augmented generation RAG As you progress you ll explore advanced AI workflows including multi agent architectures fine tuning strategies and optimization techniques to maximize LLM efficiency The book also takes a deep dive into practical applications of LLMs guiding you through the development of intelligent chatbots document retrieval systems content generation pipelines and AI driven automation tools You ll learn how to leverage APIs integrate LLMs into web and mobile platforms and optimize large scale deployments while addressing key challenges such as inference latency cost efficiency and ethical considerations By the end of the book you ll have gained a solid understanding of LLM architectures hands on experience with LangChain and the expertise to build scalable AI applications that redefine human computer interaction

What You Will Learn

- Understand the fundamentals of LangChain and Python for LLM development
- Know advanced AI workflows including fine tuning and memory management
- Build AI powered applications such as chatbots retrieval systems and automation tools
- Know deployment strategies and performance optimization for real world use
- Use best practices for scalability security and responsible AI implementation

Unlock the full potential of LLMs and take your AI development skills to the next level

Who This Book Is For Software engineers and Python developers interested in learning the foundations of LLMs and building advanced modern LLM applications for various tasks

Hands-On ROS for Robotics Programming Bernardo Ronquillo Japón, 2020-02-26

Take your ROS skills to the next level by implementing complex robot structures in a ROS simulation

Key Features

- Learn fundamental ROS concepts and apply them to solve navigation tasks
- Work with single board computers to program smart behavior in mobile robots
- Understand how specific characteristics of the physical environment influence your robot s performance

Book Description Connecting a physical robot to a robot simulation using the Robot Operating System ROS infrastructure is one of the most common challenges faced by ROS engineers With this book you ll learn how to simulate a robot in a virtual environment and achieve desired behavior in equivalent real world scenarios This book starts with an introduction to GoPiGo3 and the sensors and actuators with which it is equipped You ll then work with GoPiGo3 s digital twin by creating a 3D model from scratch and running a simulation in ROS using Gazebo Next the book will show you how to use GoPiGo3 to build and run an autonomous mobile robot that is aware of its surroundings Finally you ll find out how a robot can learn tasks that have not been programmed in the code but are acquired by observing its environment You ll even cover topics such as deep learning and reinforcement learning By the end of this robot programming book you ll be well versed with the basics of building specific purpose applications in robotics and developing highly intelligent autonomous robots from scratch

What you will learn

- Get to grips with developing environment aware robots
- Gain insights into how your robots will react in physical environments
- Break down a desired behavior into a chain of robot actions
- Relate data from sensors with context to produce adaptive responses
- Apply reinforcement learning to allow your robot to learn by trial and error
- Implement

deep learning to enable your robot to recognize its surroundings Who this book is for If you are an engineer looking to build AI powered robots using the ROS framework this book is for you Robotics enthusiasts and hobbyists who want to develop their own ROS robotics projects will also find this book useful Knowledge of Python and or C programming and familiarity with single board computers such as Raspberry Pi is necessary to get the most out of this book [Unity 2020 By Example](#) Robert Wells,2020-09-30 Learn Unity game development with C through a series of practical projects ranging from building a simple 2D game to adding AR VR experiences and machine learning capabilities in a simple yet effective way Key Features Gain a high level overview of the Unity game engine while building your own games portfolio Discover best practices for implementing game animation game physics shaders and effects Create fully featured apps including Space shooter and a 2D adventure game and develop AR VR experiences and Game AI agents Book DescriptionThe Unity game engine used by millions of developers around the world is popular thanks to its features that enable you to create games and 3D apps for desktop and mobile platforms in no time With Unity 2020 this state of the art game engine introduces enhancements in Unity tooling editor and workflow among many other additions The third edition of this Unity book is updated to the new features in Unity 2020 and modern game development practices Once you ve quickly got to grips with the fundamentals of Unity game development you ll create a collection a twin stick shooter and a 2D adventure game You ll then explore advanced topics such as machine learning virtual reality and augmented reality by building complete projects using the latest game tool kit As you implement concepts in practice this book will ensure that you come away with a clear understanding of Unity game development By the end of the book you ll have a firm foundation in Unity development using C which can be applied to other engines and programming languages You ll also be able to create several real world projects to add to your professional game development portfolio What you will learn Learn the fundamentals of game development including GameObjects components and scenes Develop a variety of games in C and explore the brand new sprite shaping tool for Unity 3D and 2D games Handle player controls and input functionality for your Unity games Implement AI techniques such as pathfinding finite state machines and machine learning using Unity ML Agents Create virtual and augmented reality games using UnityVR and AR Foundation Explore the cutting edge features of Unity 2020 and how they can be used to improve your games Who this book is for If you are a game developer or programmer new to Unity and want to get up and running with the game engine in a hands on way this book is for you Unity developers looking to work on practical projects to explore new features in Unity 2020 will find this book useful A basic understanding of C programming is required [Quick Start Guide to Large Language Models](#) Sinan Ozdemir,2024-09-26 The Practical Step by Step Guide to Using LLMs at Scale in Projects and Products Large Language Models LLMs like Llama 3 Claude 3 and the GPT family are demonstrating breathtaking capabilities but their size and complexity have deterred many practitioners from applying them In Quick Start Guide to Large Language Models Second Edition 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 and hands on exercises Along the way he shares insights into LLMs inner workings to help you optimize model choice data formats prompting fine tuning performance and much more The resources on the companion website include sample datasets and up to date code for working with open and closed source LLMs such as those from OpenAI GPT 4 and GPT 3 5 Google BERT T5 and Gemini X Grok Anthropic the Claude family 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 building retrieval augmented generation RAG chatbots and AI Agents Master advanced prompt engineering techniques like output structuring chain of thought prompting and semantic few shot prompting Customize LLM embeddings to build a complete recommendation engine from scratch with user data that outperforms out of the box embeddings from OpenAI Construct and fine tune multimodal Transformer architectures from scratch using open source LLMs and large visual datasets Align LLMs using Reinforcement Learning from Human and AI Feedback RLHF RLAIF to build conversational agents from open models like Llama 3 and FLAN T5 Deploy prompts and custom fine tuned LLMs to the cloud with scalability and evaluation pipelines in mind Diagnose and optimize LLMs for speed memory and performance with quantization probing benchmarking and evaluation frameworks 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 [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

Hands-On Deep Learning for Games Micheal Lanham, 2019-03-30 Understand the core concepts of deep learning and deep reinforcement learning by applying them to develop games Key Features Apply the power of deep learning to complex reasoning tasks by building a Game AI Exploit the most recent developments in machine learning and AI for building smart games Implement deep learning models and neural networks with Python Book Description The number of applications of deep learning and neural networks has multiplied in the last couple of years Neural nets has enabled significant breakthroughs in everything from computer vision voice generation voice recognition and self driving cars Game development is also a key area where these techniques are being applied This book will give an in depth view of the potential of deep learning and neural networks in game development We will take a look at the foundations of multi layer perceptrons to using convolutional and recurrent networks In applications from GANs that create music or textures to self driving cars and chatbots Then we introduce deep reinforcement learning through the multi armed bandit problem and other OpenAI Gym environments As we progress through the book we will gain insights about DRL techniques such as Motivated Reinforcement Learning with Curiosity and Curriculum Learning We also take a closer look at deep reinforcement learning and in particular the Unity ML Agents toolkit By the end of the book we will look at how to apply DRL and the ML Agents toolkit to enhance test and automate your games or simulations Finally we will cover your possible next steps and possible areas for future learning What you will learn Learn the foundations of neural networks and deep learning Use advanced neural network architectures in applications to create music textures self driving cars and chatbots Understand the basics of reinforcement and DRL and how to apply it to solve a variety of problems Working with Unity ML Agents toolkit and how to install setup and run the kit Understand core concepts of DRL and the differences between discrete and continuous action environments Use several advanced forms of learning in

various scenarios from developing agents to testing games Who this book is for This book is for game developers who wish to create highly interactive games by leveraging the power of machine and deep learning No prior knowledge of machine learning deep learning or neural networks is required this book will teach those concepts from scratch A good understanding of Python is required

Learn Generative AI with PyTorch Mark Liu, 2025-01-28 Learn how generative AI works by building your very own models that can write coherent text create realistic images and even make lifelike music Learn Generative AI with PyTorch teaches the underlying mechanics of generative AI by building working AI models from scratch Throughout you'll use the intuitive PyTorch framework that's instantly familiar to anyone who's worked with Python data tools Along the way you'll master the fundamentals of Generative Adversarial Networks GANs Transformers Large Language Models LLMs variational autoencoders diffusion models LangChain and more In Learn Generative AI with PyTorch you'll build these amazing models A simple English to French translator A text generating model as powerful as GPT-2 A diffusion model that produces realistic flower images Music generators using GANs and Transformers An image style transfer model A zero-shot know-it-all agent The generative AI projects you create use the same underlying techniques and technologies as full-scale models like GPT-4 and Stable Diffusion You don't need to be a machine learning expert you can get started with just some basic Python programming skills About the technology Transformers Generative Adversarial Networks GANs diffusion models LLMs and other powerful deep learning patterns have radically changed the way we manipulate text images and sound Generative AI may seem like magic at first but with a little Python the PyTorch framework and some practice you can build interesting and useful models that will train and run on your laptop This book shows you how About the book Learn Generative AI with PyTorch introduces the underlying mechanics of generative AI by helping you build your own working AI models You'll begin by creating simple images using a GAN and then progress to writing a language translation transformer line by line As you work through the fun and fascinating projects you'll train models to create anime images write like Hemingway make music like Mozart and more You just need Python and a few machine learning basics to get started You'll learn the rest as you go What's inside Build an English to French translator Create a text generation LLM Train a diffusion model to produce high-resolution images Music generators using GANs and Transformers About the reader Examples use simple Python No deep learning experience required About the author Mark Liu is the founding director of the Master of Science in Finance program at the University of Kentucky The technical editor on this book was Emmanuel Maggiori

Large Language Models for Developers Oswald Campesato, 2024-12-26 This book offers a thorough exploration of Large Language Models LLMs guiding developers through the evolving landscape of generative AI and equipping them with the skills to utilize LLMs in practical applications Designed for developers with a foundational understanding of machine learning this book covers essential topics such as prompt engineering techniques fine-tuning methods attention mechanisms and quantization strategies to optimize and deploy LLMs Beginning with an introduction to generative AI the book explains

distinctions between conversational AI and generative models like GPT 4 and BERT laying the groundwork for prompt engineering Chapters 2 and 3 Some of the LLMs that are used for generating completions to prompts include Llama 3 1 405B Llama 3 GPT 4o Claude 3 Google Gemini and Meta AI Readers learn the art of creating effective prompts covering advanced methods like Chain of Thought CoT and Tree of Thought prompts As the book progresses it details fine tuning techniques Chapters 5 and 6 demonstrating how to customize LLMs for specific tasks through methods like LoRA and QLoRA and includes Python code samples for hands on learning Readers are also introduced to the transformer architecture s attention mechanism Chapter 8 with step by step guidance on implementing self attention layers For developers aiming to optimize LLM performance the book concludes with quantization techniques Chapters 9 and 10 exploring strategies like dynamic quantization and probabilistic quantization which help reduce model size without sacrificing performance FEATURES Covers the full lifecycle of working with LLMs from model selection to deployment Includes code samples using practical Python code for implementing prompt engineering fine tuning and quantization Teaches readers to enhance model efficiency with advanced optimization techniques Includes companion files with code and images available from the publisher **Keras 2.x Projects** Giuseppe Ciaburro, 2018-12-31 Demonstrate fundamentals of Deep Learning and neural network methodologies using Keras 2 x Key Features Experimental projects showcasing the implementation of high performance deep learning models with Keras Use cases across reinforcement learning natural language processing GANs and computer vision Build strong fundamentals of Keras in the area of deep learning and artificial intelligence Book Description Keras 2 x Projects explains how to leverage the power of Keras to build and train state of the art deep learning models through a series of practical projects that look at a range of real world application areas To begin with you will quickly set up a deep learning environment by installing the Keras library Through each of the projects you will explore and learn the advanced concepts of deep learning and will learn how to compute and run your deep learning models using the advanced offerings of Keras You will train fully connected multilayer networks convolutional neural networks recurrent neural networks autoencoders and generative adversarial networks using real world training datasets The projects you will undertake are all based on real world scenarios of all complexity levels covering topics such as language recognition stock volatility energy consumption prediction faster object classification for self driving vehicles and more By the end of this book you will be well versed with deep learning and its implementation with Keras You will have all the knowledge you need to train your own deep learning models to solve different kinds of problems What you will learn Apply regression methods to your data and understand how the regression algorithm works Understand the basic concepts of classification methods and how to implement them in the Keras environment Import and organize data for neural network classification analysis Learn about the role of rectified linear units in the Keras network architecture Implement a recurrent neural network to classify the sentiment of sentences from movie reviews Set the embedding layer and the tensor sizes of a network Who this book is for If you are a data scientist

machine learning engineer deep learning practitioner or an AI engineer who wants to build speedy intelligent applications with minimal lines of codes then this book is the best fit for you Sound knowledge of machine learning and basic familiarity with Keras library would be useful

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

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 question answering and content summarization among other tasks Advanced GPT topics including prompt engineering fine tuning models for specific tasks plug ins LangChain and more **Data Labeling in**

Machine Learning with Python Vijaya Kumar Suda,2024-01-31 Take your data preparation machine learning and GenAI skills to the next level by learning a range of Python algorithms and tools for data labeling Key Features Generate labels for regression in scenarios with limited training data Apply generative AI and large language models LLMs to explore and label text data Leverage Python libraries for image video and audio data analysis and data labeling Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionData labeling is the invisible hand that guides the power of artificial intelligence and machine learning In today s data driven world mastering data labeling is not just an advantage it s a necessity Data Labeling in Machine Learning with Python empowers you to unearth value from raw data create intelligent systems and influence the course of technological evolution With this book you ll discover the art of employing summary statistics weak supervision programmatic rules and heuristics to assign labels to unlabeled training data programmatically As you progress you ll be able to enhance your datasets by mastering the intricacies of semi supervised learning and data augmentation Venturing further into the data landscape you ll immerse yourself in the annotation of image video and audio data harnessing the power of Python libraries such as seaborn matplotlib cv2 librosa openai and langchain With hands on guidance and practical examples you ll gain proficiency in annotating diverse data types effectively By the end of this book you ll have the practical expertise to programmatically label diverse data types and enhance datasets unlocking the full potential of your data What you will learn Excel in exploratory data analysis EDA for tabular text audio video and image data Understand how to use Python libraries to apply rules to label raw data Discover data augmentation techniques for adding classification labels Leverage K means clustering to classify unsupervised data Explore how hybrid supervised learning is applied to add labels for classification Master text data classification with generative AI Detect objects and classify images with OpenCV and YOLO Uncover a range of techniques and resources for data annotation Who this book is for This book is for machine learning engineers data scientists and data engineers who want to learn data labeling methods and algorithms for model training Data enthusiasts and Python developers will be able to use this book to learn data exploration and annotation using Python libraries Basic Python knowledge is beneficial but not necessary to get started **Generative AI in Action** Amit Bahree,2024-10-29 From the back cover 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 About the reader For enterprise architects developers and data scientists interested in upgrading their architectures with generative AI

Textual Intelligence Meenakshi Malik,Susheela Hooda,Preeti Sharma,2025-09-03 The book is a must have resource for anyone looking to understand the complexities of generative AI offering comprehensive insights into LLMs effective training strategies and practical applications Textual Intelligence Large Language Models and Their Real World Applications provides an overview of generative AI and its multifaceted applications as well as the significance and potential of Large Language Models LLMs including GPT and LLaMA It addresses the generative AI project lifecycle challenges in existing data architectures proposed use case planning and scope definition model deployment and application integration Training LLMs data requirements for effective LLM training pre training and fine tuning processes and navigating computational resources and infrastructure are also discussed The volume delves into in context learning and prompt engineering offering strategies for crafting effective prompts techniques for controlling model behavior and output quality and best practices for prompt engineering Textual Intelligence Large Language Models and Their Real World Applications also discusses cost optimization strategies for LLM training aligning models to human values optimizing model architectures the power of transfer learning and fine tuning instruction fine tuning for precision and parameter efficient fine tuning PEFT with adapters such as LoRA QLoRA and soft prompts making it an essential guide for both beginners and industry veterans Readers will find this book Explores the real world potential of large language models Introduces industry changing AI solutions Provides advanced insights on AI and its models Audience Industry professionals academics graduate students and researchers seeking real world solutions using generative AI

Learning LangChain Mayo Oshin,Nuno Campos,2025-02-13 If you re looking to build production ready AI applications that can reason and retrieve external data for context awareness you ll need to master a popular development framework and platform for building running and managing agentic applications LangChain is used by several leading companies including Zapier Replit Databricks and many more This guide is an indispensable resource for developers who understand Python or JavaScript but are beginners eager to harness the power of AI Authors Mayo Oshin and Nuno Campos demystify the use of LangChain through practical insights and in depth tutorials Starting with basic concepts this book shows you step by step how to build a production ready AI agent that uses your data Harness the power of retrieval augmented generation RAG to enhance the accuracy of LLMs using external up to date data Develop and deploy AI applications that interact intelligently and contextually with users Make use of the powerful agent architecture with LangGraph Integrate and manage third party APIs and tools to extend the functionality of your AI applications Monitor test and evaluate your AI applications to improve performance Understand the foundations of LLM app development and how they can be used with LangChain

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 **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, and 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 Projects Lisa Tagliaferri, Michelle Morales, Ellie Birkbeck, Alvin Wan, 2019-05-02. As machine learning is increasingly leveraged to find patterns, conduct analysis, and make decisions sometimes without final input from humans, who may be impacted by these findings, it is crucial to invest in bringing more stakeholders into the fold. This book of Python projects in machine learning tries to do just that: to equip the developers of today and tomorrow with tools they can use to better understand, evaluate, and shape machine learning to help ensure that it is serving us all. This book will set you up with a Python programming environment; if you don't have one already, then provide you with a conceptual understanding of machine learning in the chapter *An Introduction to Machine Learning*. What follows next are three Python machine learning projects. They will help you create a machine learning classifier, build a neural network to recognize handwritten digits, and give you a background in deep reinforcement learning through building a bot for Atari.

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

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