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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

Mastering Large Language Models with Python: Unleash the

Power of Advanced Natural Language Processing for Enterprise Innovation and Efficiency Using Large Language Models (LLMs) with Python

Raj Arun, 2024-04-12

A Comprehensive Guide to Leverage Generative AI in the Modern Enterprise

Key Features

- Gain a comprehensive understanding of LLMs within the framework of Generative AI from foundational concepts to advanced applications
- Dive into practical exercises and real world applications accompanied by detailed code walkthroughs in Python
- Explore LLMOps with a dedicated focus on ensuring trustworthy AI and best practices for deploying managing and maintaining LLMs in enterprise settings

Book Description

Mastering Large Language Models with Python is an indispensable resource that offers a comprehensive exploration of Large Language Models (LLMs) providing the essential knowledge to leverage these transformative AI models effectively. From unraveling the intricacies of LLM architecture to practical applications like code generation and AI driven recommendation systems, readers will gain valuable insights into implementing LLMs in diverse projects. Covering both open source and proprietary LLMs, the book delves into foundational concepts and advanced techniques empowering professionals to harness the full potential of these models. Detailed discussions on quantization techniques for efficient deployment, operational strategies with LLMOps, and ethical considerations ensure a well rounded understanding of LLM implementation. Through real world case studies, code snippets, and practical examples, readers will navigate the complexities of LLMs with confidence, paving the way for innovative solutions and organizational growth. Whether you seek to deepen your understanding, drive impactful applications, or lead AI driven initiatives, this book equips you with the tools and insights needed to excel in the dynamic landscape of artificial intelligence.

What you will learn

- In depth study of LLM architecture and its versatile applications across industries
- Harness open source and proprietary LLMs to craft innovative solutions
- Implement LLM APIs for a wide range of tasks spanning natural language processing, audio analysis, and visual recognition
- Optimize LLM deployment through techniques such as quantization and operational strategies like LLMOps ensuring efficient and scalable model usage

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Mastering Retrieval-Augmented Generation

Prashanth Josyula, Karanbir Singh, 2025-03-21

DESCRIPTION

Large language models (LLMs) like GPT, BERT, and T5 are revolutionizing how we interact with technology, powering virtual assistants, content generation, and data analysis. As their influence grows, understanding their architecture

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

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

WHO THIS BOOK IS FOR This book is for AI practitioners data scientists students and developers looking to implement RAG using LangChain and LlamaIndex Readers having basic knowledge of Python ML concepts and NLP fundamentals would be able to leverage the knowledge gained to accelerate their careers

TABLE OF CONTENTS 1 Introduction to Large Language Models 2 Introduction to Retrieval augmented Generation 3 Getting Started with LangChain 4 Fundamentals of Retrieval augmented Generation 5 Integrating RAG with LangChain 6 Comprehensive Guide to LangChain 7 Introduction to LlamaIndex 8 Building and Optimizing RAG Pipelines with LlamaIndex 9 Advanced Techniques with LlamaIndex 10 Deploying RAG Models in Production 11 Future Trends and Innovations in RAG

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

Python: Advanced Guide to Artificial Intelligence Giuseppe Bonaccorso, Armando Fandango, Rajalingappaa Shanmugamani, 2018-12-21 Demystify the complexity of machine learning techniques and create evolving clever solutions to solve your problems Key Features Master supervised unsupervised and semi supervised ML algorithms and their implementation Build deep learning models for object detection image classification similarity learning and more Build deploy and scale end to end deep neural network models in a production environment Book Description This Learning Path is your complete guide to quickly getting to grips with popular machine learning algorithms You ll be introduced to the most widely used algorithms in supervised unsupervised and semi supervised machine learning and learn how to use them in the best possible manner Ranging from Bayesian models to the MCMC algorithm to Hidden Markov models this Learning Path will teach you how to extract features from your dataset and perform dimensionality reduction by making use of Python based libraries You ll bring the use of TensorFlow and Keras to build deep learning models using concepts such as transfer learning generative adversarial networks and deep reinforcement learning Next you ll learn the advanced features of TensorFlow 1 x such as distributed TensorFlow with TF clusters deploy production models with TensorFlow Serving You ll implement different techniques related to object classification object detection image segmentation and more By the end of this Learning Path you ll have obtained in depth knowledge of TensorFlow making you the go to person for solving artificial intelligence problems This Learning Path includes content from the following Packt products Mastering Machine Learning Algorithms by Giuseppe Bonaccorso Mastering TensorFlow 1 x by Armando Fandango Deep Learning for Computer Vision by Rajalingappaa Shanmugamani What you will learn Explore how an ML model can be trained optimized and evaluated Work with Autoencoders and Generative Adversarial Networks Explore the most important Reinforcement Learning techniques Build end to end deep learning CNN RNN and Autoencoders models Who this book is for This Learning Path is for data scientists machine learning engineers artificial intelligence engineers who want to delve into complex machine learning

algorithms calibrate models and improve the predictions of the trained model You will encounter the advanced intricacies and complex use cases of deep learning and AI A basic knowledge of programming in Python and some understanding of machine learning concepts are required to get the best out of this Learning Path [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 **Azure for Developers** Kamil Mrzygłód,2025-07-30 Advance your development career by mastering Microsoft Azure s latest tools and technologies to enhance existing applications and build powerful cloud native solutions Key Features

Build and deploy Azure apps with web serverless and container based architectures Create end to end cloud solutions on Azure by integrating AI services monitoring tools and DevOps Upskill confidently with practical insights and real world development practices Purchase of the print or Kindle book includes a free PDF eBook Book Description Supercharge your development career by mastering Azure s evolving GenAI container and serverless capabilities to build scalable secure applications with confidence This third edition of Azure for Developers transforms complex cloud concepts into practical skills guiding you through the design deployment and management of cloud native solutions while eliminating infrastructure headaches Fully updated with Azure s latest features this hands on guide helps you automate DevOps pipelines with GitHub Actions deploy microservices using containers and integrate generative AI via Azure OpenAI to modernize your development workflows You will learn how to set up your environment streamline app deployment and implement robust service integrations using real world best practices The final section is a game changer for developers who want to stay ahead of the curve It shows you how to leverage Azure s AI and machine learning services to automate tasks fine tune models and build intelligent assistants and next generation workflows By the end you will have the confidence and capabilities to deliver production grade cloud solutions that meet real world demands and position yourself at the forefront of modern cloud development What you will learn Integrate data solutions like Azure Storage and managed SQL databases into your applications Embed monitoring into your application using Application Insights SDK Develop serverless solutions with Azure Functions and Durable Functions Automate CI CD workflows with GitHub Actions and Azure integration Build and manage containers using Azure Container Apps Azure Container Registry ACR and App Service Design powerful workflows with both low code and full code approaches Enhance applications with AI and machine learning components Who this book is for This book is for cloud developers and engineers building applications with Microsoft Azure as well as those looking to begin a career in Azure development While a basic understanding of programming concepts is recommended the book covers both basic and advanced ideas and solutions making it valuable for beginners and experienced developers looking to enhance their skills

Generative AI Apps with LangChain and Python Rabi Jay, 2024-12-26 Future proof your programming career through practical projects designed to grasp the intricacies of LangChain s components from core chains to advanced conversational agents This hands on book provides Python developers with the necessary skills to develop real world Large Language Model LLM based Generative AI applications quickly regardless of their experience level Projects throughout the book offer practical LLM solutions for common business issues such as information overload internal knowledge access and enhanced customer communication Meanwhile you ll learn how to optimize workflows enhance embedding efficiency select between vector stores and other optimizations relevant to experienced AI users The emphasis on real world applications and practical examples will enable you to customize your own projects to address pain points across various industries Developing LangChain based Generative AI LLM Apps with Python employs a focused toolkit LangChain Pinecone and

Streamlit LLM integration to practically showcase how Python developers can leverage existing skills to build Generative AI solutions By addressing tangible challenges you ll learn by be doing enhancing your career possibilities in today s rapidly evolving landscape What You Will Learn Understand different types of LLMs and how to select the right ones for responsible AI Structure effective prompts Master LangChain concepts such as chains models memory and agents Apply embeddings effectively for search content comparison and understanding similarity Setup and integrate Pinecone vector database for indexing structuring data and search Build Q those seeking a structured guide to enhance their careers by learning to create robust real world LLM powered Generative AI applications data scientists analysts and experienced developers new to LLMs

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 DescriptionRAG 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 **Mastering TensorFlow 1.x** Armando Fandango,2018-01-22 Build scale and deploy deep neural network models using the star libraries in Python Key Features Delve into advanced machine learning and deep learning use cases using Tensorflow and Keras Build deploy and scale end to end deep neural network models in a production environment Learn to deploy TensorFlow on mobile and distributed TensorFlow on GPU Clusters and Kubernetes Book Description TensorFlow is the most popular numerical computation library built from the ground up for distributed cloud and mobile environments TensorFlow represents the data as tensors and the computation as graphs This book is a comprehensive guide that lets you explore the advanced features of TensorFlow 1 x Gain insight into TensorFlow Core Keras TF Estimators TFLearn TF Slim Pretty Tensor and Sonnet Leverage the power of TensorFlow and Keras to build deep learning models using concepts such as transfer learning generative adversarial networks and deep reinforcement learning Throughout the book you will obtain hands on experience with varied datasets such as MNIST CIFAR 10 PTB text8 and COCO Images You will learn the advanced features of TensorFlow1 x such as distributed TensorFlow with TF Clusters deploy production models with TensorFlow Serving and build and deploy TensorFlow models for mobile and embedded devices on Android and iOS platforms You will see how to call TensorFlow and Keras API within the R statistical software and learn the required techniques for debugging when the TensorFlow API based code does not work as expected The book helps you obtain in depth knowledge of TensorFlow making you the go to person for solving artificial intelligence problems By the end of this guide you will have mastered the offerings of TensorFlow and Keras and gained the skills you need to build smarter faster and efficient machine learning and deep learning systems What you will learn Master advanced concepts of deep learning such as transfer learning reinforcement learning generative models and more using TensorFlow and Keras Perform supervised classification and regression and unsupervised clustering learning to solve machine learning tasks Build end to end deep learning CNN RNN and Autoencoders models with TensorFlow Scale and deploy production models with distributed and high performance computing on GPU and clusters Build TensorFlow models to work with multilayer perceptrons using Keras TFLearn and R Learn the functionalities of smart apps by building and deploying TensorFlow models on iOS and Android devices Supercharge TensorFlow with distributed training and deployment on Kubernetes and TensorFlow Clusters Who this book is for This book is for data scientists machine learning engineers artificial intelligence engineers and for all TensorFlow users who wish to upgrade their TensorFlow knowledge and work on various machine learning and deep learning problems If you are looking for an easy to follow guide that underlines the intricacies and complex use cases of machine learning you will find this book extremely useful Some basic understanding of TensorFlow is required to get the most out of the book **Building AI Applications with ChatGPT APIs** Martin Yanev,2023-09-21 Enhance your application development skills by building a ChatGPT clone code bug fixer quiz generator translation app email auto reply PowerPoint generator and more in just one read Key Features Become proficient in building AI applications with

ChatGPT DALL E and Whisper Understand how to select the optimal ChatGPT model and fine tune it for your specific use case Monetize your applications by integrating the ChatGPT API with Stripe Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionCombining ChatGPT APIs with Python opens doors to building extraordinary AI applications By leveraging these APIs you can focus on the application logic and user experience while ChatGPT's robust NLP capabilities handle the intricacies of human like text understanding and generation This book is a guide for beginners to master the ChatGPT Whisper and DALL E APIs by building ten innovative AI projects These projects offer practical experience in integrating ChatGPT with frameworks and tools such as Flask Django Microsoft Office APIs and PyQt Throughout this book you'll get to grips with performing NLP tasks building a ChatGPT clone and creating an AI driven code bug fixing SaaS application You'll also cover speech recognition text to speech functionalities language translation and generation of email replies and PowerPoint presentations This book teaches you how to fine tune ChatGPT and generate AI art using DALL E APIs and then offers insights into selling your apps by integrating ChatGPT API with Stripe With practical examples available on GitHub the book gradually progresses from easy to advanced topics cultivating the expertise required to develop deploy and monetize your own groundbreaking applications by harnessing the full potential of ChatGPT APIs What you will learn Develop a solid foundation in using the ChatGPT API for natural language processing tasks Build deploy and capitalize on a variety of desktop and SaaS AI applications Seamlessly integrate ChatGPT with established frameworks such as Flask Django and Microsoft Office APIs Channel your creativity by integrating DALL E APIs to produce stunning AI generated art within your desktop applications Experience the power of Whisper API's speech recognition and text to speech features Discover techniques to optimize ChatGPT models through the process of fine tuning Who this book is for With best practices tips and tricks for building applications using the ChatGPT API this book is for programmers entrepreneurs and software enthusiasts Python developers interested in AI applications involving ChatGPT software developers who want to integrate AI technology and web developers looking to create AI powered web applications with ChatGPT will also find this book useful A fundamental understanding of Python programming and experience of working with APIs will help you make the most of this book

LLM Engineer's Handbook Paul Iusztin,Maxime Labonne,2024-10-22 Step into the world of LLMs with this practical guide that takes you from the fundamentals to deploying advanced applications using LLMs best practices Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Build and refine LLMs step by step covering data preparation RAG and fine tuning Learn essential skills for deploying and monitoring LLMs ensuring optimal performance in production Utilize preference alignment evaluation and inference optimization to enhance performance and adaptability of your LLM applications Book DescriptionArtificial intelligence has undergone rapid advancements and Large Language Models LLMs are at the forefront of this revolution This LLM book offers insights into designing training and deploying LLMs in real world scenarios by leveraging MLOps best practices The guide walks you through building an LLM

powered twin that's cost effective, scalable and modular. It moves beyond isolated Jupyter notebooks focusing on how to build production grade end to end LLM systems. Throughout this book you will learn data engineering, supervised fine tuning and deployment. The hands on approach to building the LLM Twin use case will help you implement MLOps components in your own projects. You will also explore cutting edge advancements in the field including inference optimization, preference alignment and real time data processing making this a vital resource for those looking to apply LLMs in their projects. By the end of this book you will be proficient in deploying LLMs that solve practical problems while maintaining low latency and high availability inference capabilities. Whether you are new to artificial intelligence or an experienced practitioner, this book delivers guidance and practical techniques that will deepen your understanding of LLMs and sharpen your ability to implement them effectively. What you will learn: Implement robust data pipelines and manage LLM training cycles. Create your own LLM and refine it with the help of hands on examples. Get started with LLM Ops by diving into core MLOps principles such as orchestrators and prompt monitoring. Perform supervised fine tuning and LLM evaluation. Deploy end to end LLM solutions using AWS and other tools. Design scalable and modular LLM systems. Learn about RAG applications by building a feature and inference pipeline. Who this book is for: This book is for AI engineers, NLP professionals and LLM engineers looking to deepen their understanding of LLMs. Basic knowledge of LLMs and the Gen AI landscape. Python and AWS is recommended. Whether you are new to AI or looking to enhance your skills, this book provides comprehensive guidance on implementing LLMs in real world scenarios.

Generative AI For Software Engineers: The Journey Begins

Naresh Dulam, 2023-07-23. This book assists software engineers as they explore the realm of Artificial Intelligence (AI), providing essential tools and techniques for creating new AI powered applications or adding AI functionalities to their current projects. Significant advancements in AI and machine learning (ML) frameworks have allowed software engineers to easily integrate intelligent capabilities into their products or projects in the last ten years. The introduction of ChatGPT in late 2022 brought Generative AI into the spotlight. Although abundant information is available online, software engineers need help finding a clear entry point like 101 to learn fundamentals. This guide simplifies the core concepts gradually, addressing more advanced topics to enable you to create practical, production ready AI solutions with concrete code examples. Note: This book simplifies complex concepts by applying abstractions for software engineers to grasp the basics of Generative AI.

Data Analysis with LLMs Immanuel Trummer, 2025-05-13. Speed up common data science tasks with AI assistants like ChatGPT and Large Language Models (LLMs) from Anthropic, Cohere, Open AI, Google, Hugging Face and more. Data Analysis with LLMs teaches you to use the new generation of AI assistants and Large Language Models (LLMs) to aid and accelerate common data science tasks. Learn how to use LLMs to analyze text, tables, images and audio files. Extract information from multi modal data lakes. Classify, cluster, transform and query multimodal data. Build natural language query interfaces over structured data sources. Use LangChain to build complex data analysis pipelines. Prompt engineering and model configuration.

All practical Data Analysis with LLMs takes you from your first prompts through advanced techniques like creating LLM based agents for data analysis and fine tuning existing models You ll learn how to extract data build natural language query interfaces and much more About the technology Large Language Models LLMs can streamline and accelerate almost any data science task Master the techniques in this book and you ll be able to analyze large amounts of text tabular and graph data images videos and more with clear natural language prompts and a few lines of Python code About the book Data Analysis with LLMs shows you exactly how to integrate generative AI into your day to day work as a data scientist In it Cornell professor Immanuel Trummer guides you through a series of engaging projects that introduce OpenAI s Python library tools like LangChain and LlamaIndex and LLMs from Anthropic Cohere and Hugging Face As you go you ll use AI to query structured and unstructured data analyze sound and images and optimize the cost and quality of your data analysis process What s inside Classify cluster transform and query multimodal data Build natural language query interfaces over structured data sources Create LLM based agents for autonomous data analysis Prompt engineering and model configuration About the reader For data scientists and data analysts who know the basics of Python About the author Immanuel Trummer is an associate professor of computer science at Cornell University and a member of the Cornell Database Group Table of Contents Part 1 1 Analyzing data with large language models 2 Chatting with ChatGPT Part 2 3 The OpenAI Python library 4 Analyzing text data 5 Analyzing structured data 6 Analyzing images and videos 7 Analyzing audio data Part 3 8 GPT alternatives 9 Optimizing cost and quality 10 Software frameworks

Deep Learning with TensorFlow and Keras Amita Kapoor, Antonio Gulli, Sujit Pal, Francois Chollet, 2022-10-06 Build cutting edge machine and deep learning systems for the lab production and mobile devices Key Features Understand the fundamentals of deep learning and machine learning through clear explanations and extensive code samples Implement graph neural networks transformers using Hugging Face and TensorFlow Hub and joint and contrastive learning Learn cutting edge machine and deep learning techniques Book Description Deep Learning with TensorFlow and Keras teaches you neural networks and deep learning techniques using TensorFlow TF and Keras You ll learn how to write deep learning applications in the most powerful popular and scalable machine learning stack available TensorFlow 2 x focuses on simplicity and ease of use with updates like eager execution intuitive higher level APIs based on Keras and flexible model building on any platform This book uses the latest TF 2 0 features and libraries to present an overview of supervised and unsupervised machine learning models and provides a comprehensive analysis of deep learning and reinforcement learning models using practical examples for the cloud mobile and large production environments This book also shows you how to create neural networks with TensorFlow runs through popular algorithms regression convolutional neural networks CNNs transformers generative adversarial networks GANs recurrent neural networks RNNs natural language processing NLP and graph neural networks GNNs covers working example apps and then dives into TF in production TF mobile and TensorFlow with AutoML What you will learn Learn how to

use the popular GNNs with TensorFlow to carry out graph mining tasks Discover the world of transformers from pretraining to fine tuning to evaluating them Apply self supervised learning to natural language processing computer vision and audio signal processing Combine probabilistic and deep learning models using TensorFlow Probability Train your models on the cloud and put TF to work in real environments Build machine learning and deep learning systems with TensorFlow 2 x and the Keras API Who this book is for This hands on machine learning book is for Python developers and data scientists who want to build machine learning and deep learning systems with TensorFlow This book gives you the theory and practice required to use Keras TensorFlow and AutoML to build machine learning systems Some machine learning knowledge would be useful We don t assume TF knowledge **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 Open AI and Computational Intelligence for Society 5.0 Pandey, Rajiv, Srivastava, Nidhi, Prasad, Rajesh, Prasad, Jayashree, Garcia, Manuel B., 2024-11-29 As technology rapidly advances the complexity of societal challenges grows necessitating intelligent solutions that can adapt and evolve However developing such solutions requires a deep understanding of computational intelligence CI

and its application in addressing real world problems Moreover ethical considerations surrounding AI such as bias and accountability are crucial to ensure responsible development and deployment of intelligent systems Open AI and Computational Intelligence for Society 5 0 offers a comprehensive exploration of CI providing insights into intelligent systems theory design and application This book is a practical guide for scientists engineers and researchers seeking to develop thoughtful solutions for complex societal issues Integrating disruptive technologies and frameworks illuminates the path toward creating intelligent machines collaborating with humans to enhance problem solving and improve quality of life

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the realm of LLMs which transcend language modeling to encompass various AI tasks and modalities such as vision and audio Whether you are a seasoned AI expert or a newcomer to the field this book is your roadmap to unlock the full potential of LLMs and forge a new era of intelligent machines What you will learn Explore the core components of LLM architecture including encoder decoder blocks and embeddings Understand the unique features of LLMs like GPT 3 5 4 Llama 2 and Falcon LLM Use AI orchestrators like LangChain with Streamlit for the frontend Get familiar with LLM components such as memory prompts and tools Learn how to use non parametric knowledge and vector databases Understand the implications of LLMs for AI research and industry applications Customize your LLMs with fine tuning Learn about the ethical implications of LLM powered applications Who this book is for Software engineers and data scientists who want hands on guidance for applying LLMs to build applications The book will also appeal to technical leaders students and researchers interested in applied LLM topics We don t assume previous experience with LLM specifically But readers should have core ML software engineering fundamentals to understand and apply the content

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