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Mastering Large Language Models with Python Raj Arun R, 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 Prioritize the ethical and responsible use of LLMs with an emphasis on building models that adhere to principles of fairness transparency and accountability fostering trust in AI technologies

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 WILL YOU 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 Master prompt engineering techniques to fine tune LLM outputs enhancing quality and relevance for diverse use cases Navigate the complex landscape of ethical AI development prioritizing responsible practices to drive impactful technology adoption and advancement

WHO IS THIS BOOK FOR This book is tailored for software engineers data scientists AI researchers and technology leaders with a foundational understanding of machine learning concepts and programming It s ideal for those looking to deepen their knowledge of Large Language Models and their practical applications in the field of AI If you aim to explore LLMs extensively for implementing inventive solutions or spearheading AI driven projects this book is tailored to your needs

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hands on examples involving LLM user interfaces prompt engineering and no code model building ensure this book remains accessible to anyone curious about the AI revolution

Hands-On Reinforcement Learning for Games Micheal Lanham, 2020-01-03 Explore reinforcement learning RL techniques to build cutting edge games using Python libraries such as PyTorch OpenAI Gym and TensorFlow Key Features Get to grips with the different reinforcement and DRL algorithms for game development Learn how to implement components such as artificial agents map and level generation and audio generation Gain insights into cutting edge RL research and understand how it is similar to artificial general research

Book Description With the increased presence of AI in the gaming industry developers are challenged to create highly responsive and adaptive games by integrating artificial intelligence into their projects This book is your guide to learning how various reinforcement learning techniques and algorithms play an important role in game development with Python Starting with the basics this book will help you build a strong foundation in reinforcement learning for game development Each chapter will assist you in implementing different reinforcement learning techniques such as Markov decision processes MDPs Q learning actor critic methods SARSA and deterministic policy gradient algorithms to build logical self learning agents Learning these techniques will enhance your game development skills and add a variety of features to improve your game agent s productivity As you advance you ll understand how deep reinforcement learning DRL techniques can be used to devise strategies to help agents learn from their actions and build engaging games By the end of this book you ll be ready to apply reinforcement learning techniques to build a variety of projects and contribute to open source applications What you will learn Understand how deep learning can be integrated into an RL agent Explore basic to advanced algorithms commonly used in game development Build agents that can learn and solve problems in all types of environments Train a Deep Q Network DQN agent to solve the CartPole balancing problem Develop game AI agents by understanding the mechanism behind complex AI Integrate all the concepts learned into new projects or gaming agents Who this book is for If you re a game developer looking to implement AI techniques to build next generation games from scratch this book is for you Machine learning and deep learning practitioners and RL researchers who want to understand how to use self learning agents in the game domain will also find this book useful Knowledge of game development and Python programming experience are required

Large Language Models Stephan Raaijmakers, 2025-10-28 An in depth history of Large Language Models and what their ubiquity disruption and creativity mean from a wider sociopolitical perspective In November 2022 ChatGPT swept the globe with a mixed frenzy of excitement and anxiety Was this a step closer to reaching singularity or just another marvel in machine learning Author Stephan Raaijmakers provides a comprehensive introduction to Large Language Models LLMs describing what exactly they are capable of from a technical and creative standpoint This concise volume covers everything from the architecture of LLM neural networks to the limitations of LLMs to how our governments can regulate this technology In explaining how exactly LLMs learn from data sets Raaijmakers defangs the more sensational arguments we

may be familiar with Instead he offers a more grounded approach to how this groundbreaking and increasingly ubiquitous form of artificial intelligence will shape our society for years to come *Adversarial AI Attacks, Mitigations, and Defense Strategies* John Sotiropoulos,2024-07-26 The book not only explains how adversarial attacks work but also shows you how to build your own test environment and run attacks to see how they can corrupt ML models It s a comprehensive guide that walks you through the technical details and then flips to show you how to defend against these very same attacks Elaine Doyle VP and Cybersecurity Architect Salesforce Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Understand the unique security challenges presented by predictive and generative AI Explore common adversarial attack strategies as well as emerging threats such as prompt injection Mitigate the risks of attack on your AI system with threat modeling and secure by design methods Book DescriptionAdversarial attacks trick AI systems with malicious data creating new security risks by exploiting how AI learns This challenges cybersecurity as it forces us to defend against a whole new kind of threat This book demystifies adversarial attacks and equips you with the skills to secure AI technologies moving beyond research hype or business as usual activities Learn how to defend AI and LLM systems against manipulation and intrusion through adversarial attacks such as poisoning trojan horses and model extraction leveraging DevSecOps MLOps and other methods to secure systems This strategy based book is a comprehensive guide to AI security combining structured frameworks with practical examples to help you identify and counter adversarial attacks Part 1 introduces the foundations of AI and adversarial attacks Parts 2 3 and 4 cover key attack types showing how each is performed and how to defend against them Part 5 presents secure by design AI strategies including threat modeling MLSecOps and guidance aligned with OWASP and NIST The book concludes with a blueprint for maturing enterprise AI security based on NIST pillars addressing ethics and safety under Trustworthy AI By the end of this book you ll be able to develop deploy and secure AI systems against the threat of adversarial attacks effectively What you will learn Set up a playground to explore how adversarial attacks work Discover how AI models can be poisoned and what you can do to prevent this Learn about the use of trojan horses to tamper with and reprogram models Understand supply chain risks Examine how your models or data can be stolen in privacy attacks See how GANs are weaponized for Deepfake creation and cyberattacks Explore emerging LLM specific attacks such as prompt injection Leverage DevSecOps MLOps and MLSecOps to secure your AI system Who this book is for This book tackles AI security from both angles offense and defence AI developers and engineers will learn how to create secure systems while cybersecurity professionals such as security architects analysts engineers ethical hackers penetration testers and incident responders will discover methods to combat threats to AI and mitigate the risks posed by attackers The book also provides a secure by design approach for leaders to build AI with security in mind To get the most out of this book you ll need a basic understanding of security ML concepts and Python [The MCP Playbook](#) Gavin Dex Thorne,2025-06-15 Transform Your PC Into a Smart Automated Powerhouse Step into the future of personal computing with

a comprehensive guide that arms you with the skills to harness AI agents and revolutionize your desktop experience Whether you re a developer tech enthusiast or productivity seeker this book unveils the secrets behind making your computer work smarter not harder Picture automating complex tasks across multiple applications effortlessly from managing emails and calendars to orchestrating creative projects in Photoshop Blender or even Excel spreadsheets Dive deep into the mechanics of the Model Context Protocol MCP the groundbreaking framework that allows language models like Claude GPT and Ollama to seamlessly control your PC s software ecosystem No more tedious manual clicks or repetitive chores just smooth intelligent automation tailored to your needs Learn how to set up your environment for flawless AI integration build your first workflows that respond to natural language prompts and master advanced prompt engineering techniques to handle error cases and optimize performance Explore the delicate balance between cloud powered AI and local models ensuring privacy and efficiency in your automated routines You ll also discover how to add voice control customize MCP for specialized applications and maintain robust security practices while automating your digital workspace Featuring real world case studies troubleshooting tips and ethical insights this book offers a rich practical roadmap for anyone eager to enhance their productivity and creativity through AI driven desktop automation Take control of your PC like never before and embrace an intelligent hands free computing era

[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 DescriptionThe 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

Statistics for Data Scientists and Analysts Dipendra Pant,Suresh Kumar Mukhiya,2025-01-07 DESCRIPTION

Statistics is a powerful tool for data analysis visualization and inference Python is a popular programming language that offers a rich set of libraries and frameworks for statistical computing Together they can help you solve real world problems and make informed decisions based on data This book teaches you how to use Python to implement statistical concepts and techniques in a practical and effective way You will also learn how to perform data science and analysis to generate insights patterns and trends This book introduces the basics of statistics such as descriptive and inferential statistics ML probability distributions hypothesis testing and confidence intervals It also covers advanced topics such as regression analysis linear algebra statistical tests time series survival and correlation analysis You will learn how to identify patterns interpret data and make data driven decisions The book emphasizes practical learning with examples exercises and code snippets using popular Python libraries like NumPy Pandas Matplotlib Seaborn and SciPy to perform various statistical tasks By the end of this book you will have a solid foundation in statistics and Python programming You will be able to explore analyze and visualize data using Python You will also be able to perform various statistical tests and interpret the results KEY FEATURES Learn how to analyze data using statistics with a focus on cutting edge statistical methods modeling and visualization Explore topics from basic to advanced including data visualization statistics machine learning ML and large language models LLMs Includes clear examples hands on tutorials and a real world project to apply all concepts WHAT YOU WILL LEARN Master data manipulation cleaning and visualization techniques using Python Apply core statistical methods to analyze real world datasets Build and evaluate statistical models for regression classification and clustering Interpret and communicate insights derived from statistical analyses effectively Explore advanced statistical techniques like time series and survival analysis WHO THIS BOOK IS FOR This book is ideal for data scientists ML engineers statisticians Python practitioners researchers and anyone who works with data and statistics TABLE OF CONTENTS 1 Foundations of Data Analysis and Python 2 Exploratory Data Analysis 3 Frequency Distribution Central Tendency Variability 4 Unravelling Statistical Relationships 5 Estimation and Confidence Intervals 6 Hypothesis and Significance Testing 7 Statistical Machine Learning 8 Unsupervised Machine Learning 9 Linear Algebra Nonparametric Statistics and Time Series Analysis 10 Generative AI and Prompt Engineering 11 Real World Statistical Applications **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

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

TensorFlow 1.x Deep Learning Cookbook Antonio Gulli, Amita Kapoor, 2017-12-12 Take the next step in implementing various common and not so common neural networks with Tensorflow 1 x About This Book Skill up and implement tricky neural networks using Google s TensorFlow 1 x An easy to follow guide that lets you explore reinforcement learning GANs autoencoders multilayer perceptrons and more Hands on recipes to work with Tensorflow on desktop mobile and cloud environment Who This Book Is For This book is intended for data analysts data scientists machine learning practitioners and deep learning enthusiasts who want to perform deep learning tasks on a regular basis and are looking for a handy guide they can refer to People who are slightly familiar with neural networks and now want to gain expertise in working with different types of neural networks and datasets will find this book quite useful What You Will Learn Install TensorFlow and use it for CPU and GPU operations Implement DNNs and apply them to solve different AI driven problems Leverage different data sets such as MNIST CIFAR 10 and Youtube8m with TensorFlow and learn how to access and use them in your code Use TensorBoard to understand neural network architectures optimize the learning process and peek inside the neural network black box Use different regression techniques for prediction and classification problems Build single and multilayer perceptrons in TensorFlow Implement CNN and RNN in TensorFlow and use it to solve real world use cases Learn how restricted Boltzmann Machines can be used to recommend movies Understand the implementation of Autoencoders and deep belief networks and use them for emotion detection Master the different reinforcement learning methods to implement game playing agents GANs and their implementation using TensorFlow In Detail Deep neural networks DNNs have achieved a lot

of success in the field of computer vision speech recognition and natural language processing The entire world is filled with excitement about how deep networks are revolutionizing artificial intelligence This exciting recipe based guide will take you from the realm of DNN theory to implementing them practically to solve the real life problems in artificial intelligence domain In this book you will learn how to efficiently use TensorFlow Google s open source framework for deep learning You will implement different deep learning networks such as Convolutional Neural Networks CNNs Recurrent Neural Networks RNNs Deep Q learning Networks DQNs and Generative Adversarial Networks GANs with easy to follow independent recipes You will learn how to make Keras as backend with TensorFlow With a problem solution approach you will understand how to implement different deep neural architectures to carry out complex tasks at work You will learn the performance of different DNNs on some popularly used data sets such as MNIST CIFAR 10 Youtube8m and more You will not only learn about the different mobile and embedded platforms supported by TensorFlow but also how to set up cloud platforms for deep learning applications Get a sneak peek of TPU architecture and how they will affect DNN future By using crisp no nonsense recipes you will become an expert in implementing deep learning techniques in growing real world applications and research areas such as reinforcement learning GANs autoencoders and more Style and approach This book consists of hands on recipes where you ll deal with real world problems You ll execute a series of tasks as you walk through data mining challenges using TensorFlow 1 x Your one stop solution for common and not so common pain points this is a book that you must have on the shelf

Building Generative AI Services with FastAPI Alireza Parandeh,2025-04-15 Ready to build production grade applications with generative AI This practical guide takes you through designing and deploying AI services using the FastAPI web framework Learn how to integrate models that process text images audio and video while seamlessly interacting with databases filesystems websites and APIs Whether you re a web developer data scientist or DevOps engineer this book equips you with the tools to build scalable real time AI applications Author Alireza Parandeh provides clear explanations and hands on examples covering authentication concurrency caching and retrieval augmented generation RAG with vector databases You ll also explore best practices for testing AI outputs optimizing performance and securing microservices With containerized deployment using Docker you ll be ready to launch AI powered applications confidently in the cloud Build generative AI services that interact with databases filesystems websites and APIs Manage concurrency in AI workloads and handle long running tasks Stream AI generated outputs in real time via WebSocket and server sent events Secure services with authentication content filtering throttling and rate limiting Optimize AI performance with caching batch processing and fine tuning techniques Visit the Book s Website

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

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

Prompt Engineering for Generative AI James Phoenix, Mike Taylor, 2024-05-16 Large language models LLMs and diffusion models such as ChatGPT and Stable Diffusion have unprecedented potential Because they have been trained on all the public text and images on the internet they can make useful contributions to a wide variety of tasks And with the barrier to entry greatly reduced today practically any developer can harness LLMs and diffusion models to tackle problems previously unsuitable for automation With this book you ll gain a solid foundation in generative AI including how to apply these models in practice When first integrating LLMs and diffusion models into their workflows most developers struggle to coax reliable enough results from them to use in automated systems Authors James Phoenix and Mike Taylor show you how a set of principles called prompt engineering can enable you to work effectively with AI Learn how to empower AI to work for you This book explains The structure of the interaction chain of your program s AI model and the fine grained steps in between How AI model requests arise from transforming the application problem into a document completion problem in the model training domain The influence of LLM and diffusion model architecture and how to best interact with it How these principles apply in practice in the domains of natural language processing text and image generation and code

Hugging Face in Action Wei-Meng Lee, 2025-11-11 Everything you need to know about using the tools libraries and models at Hugging Face from transformers to RAG LangChain and Gradio Hugging Face in Action reveals how to get the absolute best out of everything Hugging Face from accessing state of the art models to building intuitive frontends for AI apps With Hugging Face in Action you ll learn Utilizing Hugging Face Transformers and Pipelines for NLP tasks Applying Hugging Face techniques for Computer Vision projects Manipulating Hugging Face Datasets for efficient data handling Training Machine Learning models with AutoTrain functionality Implementing AI agents for autonomous task execution Developing LLM based applications using LangChain and LlamaIndex Constructing LangChain applications visually with LangFlow Creating web based user interfaces using Gradio Building locally running LLM based applications with GPT4ALL Querying local data using Large Language Models Want a cutting edge transformer library Hugging Face s open source offering is best in class Need somewhere to host your models Hugging Face Spaces has you covered Do your users need an intuitive frontend for your AI app Hugging Face s Gradio library makes it easy to build UI using the Python skills you already have In Hugging Face in Action you ll learn how to take full advantage of all of Hugging Face s amazing features to quickly and reliably prototype and productionize AI applications About the

technology Hugging Face is an incredible open source ecosystem for AI engineers and data scientists providing hundreds of pre trained models datasets tools and libraries It s also a central hub for collaborating on leading edge AI research Hugging Face is a massive platform and this book will help you take full advantage of all it has to offer About the book Hugging Face in Action teaches you how to build end to end AI systems using resources from the Hugging Face community In it you ll create multiple projects including an object detection model a RAG Q A application an LLM powered chatbot and more You ll appreciate the clear accessible explanations along with thoughtful introductions to key technologies like LangChain LlamaIndex and Gradio What s inside How to navigate the huge Hugging Face library of models and tools How to run LLMs locally using GPT4ALL How to create web based user interfaces using Gradio How to improve models using Hugging Face datasets About the reader For Python programmers familiar with NumPy and Pandas No AI experience required About the author Wei Meng Lee is a technologist and founder of Developer Learning Solutions Table of Contents 1 Introducing Hugging Face 2 Getting started 3 Using Hugging Face transformers and pipelines for NLP tasks 4 Using Hugging Face for computer vision tasks 5 Exploring tokenizing and visualizing Hugging Face datasets 6 Fine tuning pretrained models and working with multimodal models 7 Creating LLM based applications using LangChain and LlamaIndex 8 Building LangChain applications visually using Langflow 9 Programming agents 10 Building a web based UI using Gradio 11 Building locally running LLM based applications using GPT4All 12 Using LLMs to query your local data 13 Bridging LLMs to the real world with the Model Context Protocol

How to Develop Apps with ChatGPT: Eric Lawson,2025-08-14 In a world where apps are no longer just tools but intelligent companions How to Develop Apps with ChatGPT is your complete guide to building powerful scalable and engaging AI powered applications from the ground up This book takes you step by step through the process of transforming ideas into fully functional ChatGPT driven solutions whether you re an experienced developer an ambitious entrepreneur or simply curious about the future of app development Across fifteen comprehensive chapters you ll learn how to set up your development environment master the fundamentals of the ChatGPT API and design your app with purpose driven features You ll dive deep into integrating conversational intelligence managing user input and preserving context for seamless interactions You ll also discover how to enhance user experience secure your app against vulnerabilities troubleshoot effectively and prepare it for real world deployment The journey doesn t stop at launch this book also covers scaling for growth monetizing your app strategically and exploring the evolving role of AI in application development By the end you ll not only know how to build with ChatGPT but you ll also have the vision to innovate with it creating apps that learn adapt and truly connect with users Packed with practical insights real world considerations and forward thinking strategies How to Develop Apps with ChatGPT is more than a technical manual it s your blueprint for building intelligent applications that stand out in a rapidly changing digital landscape Whether your goal is to streamline workflows personalize user experiences or create the next big AI driven product this book equips you with the knowledge and confidence to bring it to life

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 is practically showcased how Python developers can leverage existing skills to build Generative AI solutions. By addressing tangible challenges, you'll learn by 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&A: 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.

Programming Large Language Models with Azure Open AI Francesco Esposito, 2024-04-03 Use LLMs to build better business software applications. Autonomously communicate with users and optimize business tasks with applications built to make the interaction between humans and computers smooth and natural. Artificial Intelligence expert Francesco Esposito illustrates several scenarios for which a LLM is effective: crafting sophisticated business solutions, shortening the gap between humans and software-equipped machines, and building powerful reasoning engines. Insight into prompting and conversational programming with specific techniques for patterns and frameworks unlock how natural language can also lead to a new, advanced approach to coding. Concrete end-to-end demonstrations featuring Python and ASP.NET Core showcase versatile patterns of interaction between existing processes, APIs, data, and human input. Artificial Intelligence expert Francesco Esposito helps you: Understand the history of large language models and conversational programming. Apply prompting as a new way of coding. Learn core prompting techniques and fundamental use cases. Engineer advanced prompts including connecting LLMs to data and function calling to build reasoning engines. Use natural language in code to define workflows and orchestrate existing APIs. Master external LLM frameworks. Evaluate responsible AI security, privacy, and accuracy concerns. Explore the AI regulatory landscape. Build and implement a personal assistant. Apply a retrieval-augmented generation (RAG) pattern to formulate responses based on a knowledge base. Construct a conversational user

interface For IT Professionals and Consultants For software professionals architects lead developers programmers and Machine Learning enthusiasts For anyone else interested in natural language processing or real world applications of human like language in software

Hands-On Artificial Intelligence for IoT Amita Kapoor, 2019-01-31 Build smarter systems by combining artificial intelligence and the Internet of Things two of the most talked about topics today Key Features Leverage the power of Python libraries such as TensorFlow and Keras to work with real time IoT data Process IoT data and predict outcomes in real time to build smart IoT models Cover practical case studies on industrial IoT smart cities and home automation

Book Description There are many applications that use data science and analytics to gain insights from terabytes of data These apps however do not address the challenge of continually discovering patterns for IoT data In Hands On Artificial Intelligence for IoT we cover various aspects of artificial intelligence AI and its implementation to make your IoT solutions smarter This book starts by covering the process of gathering and preprocessing IoT data gathered from distributed sources You will learn different AI techniques such as machine learning deep learning reinforcement learning and natural language processing to build smart IoT systems You will also leverage the power of AI to handle real time data coming from wearable devices As you progress through the book techniques for building models that work with different kinds of data generated and consumed by IoT devices such as time series images and audio will be covered Useful case studies on four major application areas of IoT solutions are a key focal point of this book In the concluding chapters you will leverage the power of widely used Python libraries TensorFlow and Keras to build different kinds of smart AI models By the end of this book you will be able to build smart AI powered IoT apps with confidence What you will learn Apply different AI techniques including machine learning and deep learning using TensorFlow and Keras Access and process data from various distributed sources Perform supervised and unsupervised machine learning for IoT data Implement distributed processing of IoT data over Apache Spark using the MLlib and H2O ai platforms Forecast time series data using deep learning methods Implementing AI from case studies in Personal IoT Industrial IoT and Smart Cities Gain unique insights from data obtained from wearable devices and smart devices Who this book is for If you are a data science professional or a machine learning developer looking to build smart systems for IoT Hands On Artificial Intelligence for IoT is for you If you want to learn how popular artificial intelligence AI techniques can be used in the Internet of Things domain this book will also be of benefit A basic understanding of machine learning concepts will be required to get the best out of this book

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