



Whisper API with Flask and Docker



Openai Latest Tutorial

**Alexandra I. Cristea, Erin Walker, Yu
Lu, Olga C. Santos, Seiji Isotani**



Openai Latest Tutorial:

OpenAI's Sora StoryBuddiesPlay,2024-06-07 Unveiling the Future of Video Creation A Comprehensive Look at AI Generated Video with The Power of Text to Video Are you ready to transform video creation This groundbreaking book dives deep into the exciting world of AI generated video exploring its potential to revolutionize the way we tell stories and share ideas Introducing Sora hypothetical model Imagine a powerful AI model that can translate your simple text descriptions into captivating and visually stunning videos This book delves into the inner workings of Sora explaining how it uses text to video generation to create everything from educational explainers to heart wrenching narratives Go Beyond the Basics This comprehensive guide isn't just about the what it's about the how Learn the art of crafting effective text prompts the key to unlocking Sora's full potential Explore practical tips and techniques to refine your prompts and generate high quality videos that resonate with your audience The Power of AI in Your Hands Whether you're an educator marketer filmmaker or simply someone with a story to tell this book equips you with the knowledge and tools to leverage the power of AI video creation Discover how Sora can transform various industries Education Create personalized and engaging learning experiences for students of all ages Marketing Business Craft compelling video content that captures audience attention and drives results Film Animation Streamline pre production processes and explore new creative possibilities A Responsible Future This book doesn't shy away from the ethical considerations surrounding AI generated video Explore best practices for responsible use and the importance of transparency in a world where AI is blurring the lines between reality and imagination Look to the Horizon Peer into the exciting future of AI video creation Imagine interactive video experiences multilingual capabilities and a seamless integration with other AI tools This book paves the way for understanding the immense potential that lies ahead Get Started Today This book serves as your practical guide to using Sora hypothetical model Learn how to access the platform navigate its features and craft effective prompts that bring your vision to life The Power of Text to Video is your one stop resource for understanding and harnessing the transformative power of AI video creation Embrace the future of storytelling one video at a time

Developing Apps with GPT-4 and ChatGPT Olivier Caelen,Marie-Alice Blete,2024-07-10 This book provides an ideal guide for Python developers who want to learn how to build applications with large language models Authors Olivier Caelen and Marie Alice Blete cover the main features and benefits of GPT 4 and GPT 3 5 models and explain how they work You'll also get a step by step guide for developing applications using the OpenAI Python library including text generation Q A and smart assistants Written in clear and concise language Developing Apps with GPT 4 and ChatGPT includes easy to follow examples to help you understand and apply the concepts to your projects Python code examples are available in a GitHub repository and the book includes a glossary of key terms Ready to harness the power of large language models in your applications This book is a must You'll learn Fundamentals and benefits of GPT 4 and GPT 3 5 models including the main features and how they work How to integrate these models into Python based applications

leveraging natural language processing capabilities and overcoming specific LLM related challenges Examples of applications demonstrating the OpenAI API in Python for tasks including text generation question answering content summarization classification and more Advanced LLM topics such as prompt engineering fine tuning models for specific tasks RAG plug ins LangChain LlamaIndex GPTs and assistants Olivier Caelen is a machine learning researcher at Worldline and teaches machine learning courses at the University of Brussels Marie Alice Blete a software architect and data engineer in Worldline s R D department is interested in performance and latency issues associated with AI solutions

Deep Learning Dynamics: The Science Behind AI Training ABHIJEET SARKAR, 2025-01-07

Deep Learning Dynamics: The Science Behind AI Training Written by Abhijeet Sarkar is your ultimate guide to understanding the science and art of training artificial intelligence systems Perfect for AI enthusiasts data scientists researchers and tech professionals this comprehensive book uncovers the intricate mechanisms behind modern deep learning providing practical insights and advanced knowledge to help you navigate the rapidly evolving AI landscape With 34 in depth chapters Abhijeet Sarkar takes readers on a transformative journey through the key principles and cutting edge techniques that define AI training From neural network architectures and optimization strategies to handling imbalanced datasets and mitigating overfitting this book addresses every major facet of deep learning It s an indispensable resource for anyone looking to master the dynamic processes that power AI

What You ll Learn

- Neural Network Foundations** Dive into the architecture activation functions and learning paradigms that form the backbone of AI
- Optimization Techniques** Explore the intricacies of gradient descent Adam RMSProp and other algorithms critical for efficient learning
- Loss Functions and Regularization** Understand how to optimize models for accuracy while avoiding overfitting
- Transfer Learning and Pretrained Models** Discover how to accelerate training and improve performance with cutting edge methodologies
- Emerging Trends** Gain insights into advanced topics like attention mechanisms transformers multimodal models quantum machine learning and the energy efficiency of AI training
- Debugging and Tuning** Learn how to diagnose and enhance model performance through iterative improvements

Each chapter blends foundational theory with real world applications providing readers with actionable knowledge that bridges the gap between research and practice Sarkar also delves into ethical considerations model interpretability and the societal implications of AI ensuring a holistic understanding of this transformative technology

Who This Book Is For Whether you re a seasoned professional seeking advanced insights or a beginner aiming to build a strong foundation in AI *Deep Learning Dynamics* is tailored to your needs Students academics and industry practitioners will all find immense value in this detailed and practical guide

Why Choose This Book

- Comprehensive Coverage** Every aspect of deep learning training is explored in depth
- Future Focused Insights** Stay ahead with discussions on the latest advancements and trends
- Practical Examples** Case studies and step by step breakdowns bring concepts to life

Expert Authorship Written by Abhijeet Sarkar a renowned thought leader in generative AI and digital creativity *Deep Learning Dynamics: The Science Behind AI Training* isn t just a book it s your

companion in mastering the forces shaping the future of artificial intelligence Whether you re building the next breakthrough application or exploring the potential of self learning systems this book equips you with the tools to succeed Transform your understanding of AI with Deep Learning Dynamics Order your copy today and lead the charge in the AI revolution **The AI Act Handbook** Natascha Windholz,2025-06-10 THE AI ACT HANDBOOK Detailed overview of the AI Act Impact of the AI Act on various areas including fi nance employment law advertising and administration Related areas of law data protection IP and IT law Practical overview of AI governance risk and compliance in companies Information on standards norms and certifications By experts for practitioners with this handbook you can prepare yourself for the requirements of the European AI Act in a practical and compliant manner Get comprehensive information on the effects on the various application fields of artificial intelligence in the private and public sectors After a brief introduction to the history and technology of AI you will receive a detailed subsumption of the content of the AI Act based on the various risk categories Subsequently areas of law closely related to the use of AI in particular data protection IP and IT law will be dealt with in detail By providing case studies the book shares insights about the impact of the AI Act on various areas such as autonomous driving work critical infrastructure medicine insurance etc The correlation with the areas of law relevant to these areas will also be considered A practical overview of the topic of AI governance risk and compliance GRC in companies tips on the application of guidelines and governance frameworks implementation ideas for trustworthy AI as well as standards norms and certifications complement the book The TEAM OF AUTHORS consists of lawyers specializing in IT and data protection law and the use of AI It includes among others one of Austria s representative in the AI Act negotiations at EU Council level and the founder of the Austrian association Women in AI FROM THE CONTENTS What Is AI and How Do Data Science and Data Analytics Differ Geopolitics of Artificial Intelligence AI Act Rights and Obligations Data Protection Intellectual Property AI and IT Contract Law Private Sector Public Sector Ethics Governance in the Company **Transforming Education With Generative AI: Prompt Engineering and Synthetic Content Creation** Sharma, Ramesh C.,Bozkurt, Aras,2024-02-07 The rise of generative Artificial Intelligence AI signifies a momentous stride in the evolution of Large Language Models LLMs within the expansive sphere of Natural Language Processing NLP This groundbreaking advancement ripples through numerous facets of our existence with education AI literacy and curriculum enhancement emerging as focal points of transformation Within the pages of Transforming Education With Generative AI Prompt Engineering and Synthetic Content Creation readers embark on a journey into the heart of this transformative phenomenon Generative AI s influence extends deeply into education touching the lives of educators administrators policymakers and learners alike Within the pages of this book we explore the intricate art of prompt engineering a skill that shapes the quality of AI generated educational content As generative AI becomes increasingly accessible this comprehensive volume empowers its audience by providing them with the knowledge needed to navigate and harness the potential of this powerful tool **Artificial Intelligence in Education**

Technologies: New Development and Innovative Practices Tim Schlippe, Eric C. K. Cheng, Tianchong Wang, 2024-12-31

This book is a collection of selected research papers presented at the 2024 5th International Conference on Artificial Intelligence in Education Technology AIET 2024 held in Barcelona Spain on July 29 31 2024 AIET establishes a platform for AI in education researchers to present research exchange innovative ideas propose new models as well as demonstrate advanced methodologies and novel systems It is a timely and up to date publication responsive to the rapid development of AI technologies practices and their increasingly complex interplay with the education domain It promotes the cross fertilisation of knowledge and ideas from researchers in various fields to construct the interdisciplinary research area of AI in Education These subject areas include computer science cognitive science education learning sciences educational technology psychology philosophy sociology anthropology and linguistics The feature of this book will contribute from diverse perspectives to form a dynamic picture of AI in Education It also includes various domain specific areas for which AI and other education technology systems have been designed or used in an attempt to address challenges and transform educational practice Education stands as a cornerstone for societal progress and ensuring universal access to quality education is integral to achieving Goal 4 of the United Nations Sustainable Development Goals SDGs The goal is to ensure inclusive and equitable quality education for all by 2030 This involves not only expanding access to education but also improving the quality of education to promote lifelong learning opportunities AI has the potential to significantly contribute to the achievement of Goal 4 It is committed to exploring how AI may play a role in bringing more innovative practices transforming education and triggering an exponential leap towards the achievement of the Education 2030 Agenda Providing broad coverage of recent technology driven advances and addressing a number of learning centric themes the book is an informative and useful resource for researchers practitioners education leaders and policy makers who are involved or interested in AI and education

Die nächste Stufe der Evolution Ray Kurzweil, 2024-11-28 Die Zukunft von Mensch und Maschine Im neuen Buch des renommierten Zukunftsforschers und Technologie Visionärs Ray Kurzweil wird eine faszinierende Vision der kommenden Jahre und Jahrzehnte entworfen eine Welt die von KI durchdrungen sein wird Kurzweil skizziert in diesem intensiven Leseerlebnis eine Zukunft in der Mensch und Maschine untrennbar miteinander verbunden sind Eine Zukunft in der wir unser Bewusstsein auf eine höhere Ebene heben werden in der wir uns aus virtuellen Neuronen neu erschaffen werden in der wir länger leben gesünder und freier sein werden als je zuvor Dank KI eröffnen sich uns in sämtlichen Lebensbereichen ungeahnte Möglichkeiten für Fortschritt und das in exponentiellem Tempo Gleichzeitig sensibilisiert das Buch für potenzielle Gefahren die mit einer unkontrollierten Entwicklung von KI einhergehen Dabei wird deutlich Wir haben es selbst in der Hand in welche Richtung wir uns bewegen Kommen Sie mit auf eine atemberaubende Reise in die Welt von Morgen und bermorgen Das TIMES Magazine zählte Ray Kurzweil zu den einflussreichsten Menschen weltweit Seit den 1990er Jahren haben sich von den 147 Vorhersagen Kurzweils 86 Prozent bewahrheitet

The Venture

Alchemists Rob Lalka, 2024-05-14 Gold Medalist 2025 Axiom Business Book Awards Business Ethics Future Trends category Shortlist 2024 Best in Business Book Awards Society for Advancing Business Editing and Writing We once idolized tech entrepreneurs for creating innovations that seemed like modern miracles Yet our faith has been shattered We now blame them for spreading lies breaking laws and causing chaos Yesterday's Silicon Valley darlings have become today's Big Tech villains Which is it Are they superheroes or scoundrels Or is it more complicated some blend of both In *The Venture Alchemists* Rob Lalka demystifies how tech entrepreneurs built empires that made trillions Meta started as a cruel Halloween prank Alphabet began as a master's thesis that warned against corporate deception and Palantir came from a campus controversy over hateful speech These largely forgotten origin stories show how ordinary fears and youthful ambitions shaped their ventures making each tech tale relatable both wonderfully and tragically human Readers learn about the adversities tech entrepreneurs overcame the troubling tradeoffs they made and the tremendous power they now wield Using leaked documents and previously unpublished archival material Lalka takes readers inside Big Tech's worst exploitations and abuses alongside many good intentions and moral compromises But this story remains unfinished and *The Venture Alchemists* ultimately offers hope from the people who decades ago warned about the risks of the emerging Internet Their insights illuminate a path toward more responsible innovations so that technologies aren't dangerous weapons but valuable tools that ensure progress improve society and enhance our daily lives [Online-Journalismus für die Praxis](#) Nea Matzen, 2024-12-05 *Online Journalismus für die Praxis* gibt Einsteiger innen aber auch Profis fundierte Tipps für das Publizieren auf Websites Blogs und Social Media Plattformen Es ist das Handbuch für den publizistischen Alltag mit Fachwissen für Netzpublikationen Das Buch unterteilt in einfachen Kapiteln beim Konzipieren der Webpräsenz In weiteren Schritten werden Texte Suchmaschinenoptimierung Fotos Darstellungsformen und Formate sowie Arbeitsweisen und Strategien in der Praxis behandelt Dabei bezieht es den Einfluss der KI mit dem jetzigen Stand der Entwicklung ein Konkrete Tipps werden durch Forschungsergebnisse zu Nutzerverhalten und Erfahrungen von Online Redaktionen eingebunden Zahlreiche Beispiele sorgen für Anschaulichkeit und Nachvollziehbarkeit der Hinweise Eine reflektierte und fundierte journalistische Herangehensweise ist Grundlage dieses praktischen Handbuchs Die 4. Auflage wurde grundlegend bearbeitet und stark erweitert [The Complete Obsolete Guide to Generative AI](#) David Clinton, 2024-09-17 The last book on AI you'll ever need We swear AI technology moves so fast that this book is probably already out of date But don't worry *The Complete Obsolete Guide to Generative AI* is still an essential read for anyone who wants to make generative AI into a tool rather than a toy It shows you how to get the best out of AI no matter what changes come in the future You'll be able to use common automation and scripting tools to take AI to a new level and access raw and powerful GPT models via API Inside *The Complete Obsolete Guide to Generative AI* you will find Just enough background info on AI What an AI model is how it works Ways to create text code and images for your organization's needs Training AI models on your local data stores or on the

internet Business intelligence and analytics uses for AI Building your own custom AI models Looking ahead to the future of generative AI Where to get started How about creating exciting images video and even audio with AI Need more Learn to harness AI to speed up any everyday work task including writing boilerplate code creating specialized documents and analyzing your own data Push beyond simple ChatGPT prompts Discover ways to double your productivity and take on projects you never thought were possible AI and this book are here to show you how About the technology Everything you learn about Generative AI tools like Chat GPT Copilot and Claude becomes obsolete almost immediately So how do you decide where to spend your time and your company s money This entertaining and unbelievably practical book shows you what you can and should do with AI now and how to roll with the changes as they happen About the book The Complete Obsolete Guide to Generative AI is a lighthearted introduction to Generative AI written for technology professionals and motivated AI enthusiasts In it you ll get a quick paced survey of AI techniques for creating code text images and presentations working with data and much more As you explore the hands on exercises you ll build an intuition for how Generative AI can transform your daily work and communication and maybe even learn how to make peace with your new robot overlords What s inside The big picture of Generative AI tools and tech Creating useful text code and images Writing effective prompts AI driven data analytics About the reader Written for developers admins and other IT pros Some examples use simple Python code About the author David Clinton is an AWS Solutions Architect a Linux server administrator and a world renowned expert on obsolescence The technical editor on this book was Maris Sekar Table of Contents 1 Understanding generative AI basics 2 Managing generative AI 3 Creating text and code 4 Creating with media resources 5 Feeding data to your generative AI models 6 Prompt engineering Optimizing your experience 7 Outperforming legacy research and learning tools 8 Understanding stuff better 9 Building and running your own large language model 10 How I learned to stop worrying and love the chaos 11 Experts weigh in on putting AI to work A Important definitions and a brief history B Generative AI resources C Installing Python

Quick Start Guide to Large Language Models Sinan Ozdemir,2023-09-20 The Practical Step by Step Guide to Using LLMs at Scale in Projects and Products Large Language Models LLMs like ChatGPT are demonstrating breathtaking capabilities but their size and complexity have deterred many practitioners from applying them In Quick Start Guide to Large Language Models pioneering data scientist and AI entrepreneur Sinan Ozdemir clears away those obstacles and provides a guide to working with integrating and deploying LLMs to solve practical problems Ozdemir brings together all you need to get started even if you have no direct experience with LLMs step by step instructions best practices real world case studies hands on exercises and more Along the way he shares insights into LLMs inner workings to help you optimize model choice data formats parameters and performance You ll find even more resources on the companion website including sample datasets and code for working with open and closed source LLMs such as those from OpenAI GPT 4 and ChatGPT Google BERT T5 and Bard EleutherAI GPT J and GPT Neo

Cohere the Command family and Meta BART and the LLaMA family Learn key concepts pre training transfer learning fine tuning attention embeddings tokenization and more Use APIs and Python to fine tune and customize LLMs for your requirements Build a complete neural semantic information retrieval system and attach to conversational LLMs for retrieval augmented generation Master advanced prompt engineering techniques like output structuring chain of thought and semantic few shot prompting Customize LLM embeddings to build a complete recommendation engine from scratch with user data Construct and fine tune multimodal Transformer architectures using opensource LLMs Align LLMs using Reinforcement Learning from Human and AI Feedback RLHF RLAIIF Deploy prompts and custom fine tuned LLMs to the cloud with scalability and evaluation pipelines in mind By balancing the potential of both open and closed source models Quick Start Guide to Large Language Models stands as a comprehensive guide to understanding and using LLMs bridging the gap between theoretical concepts and practical application Giada Pistilli Principal Ethicist at HuggingFace A refreshing and inspiring resource Jam packed with practical guidance and clear explanations that leave you smarter about this incredible new field Pete Huang author of The Neuron Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details [ITNG 2024: 21st International Conference on](#)

[Information Technology-New Generations](#) Shahram Latifi, 2024-07-08 This volume represents the 21st International Conference on Information Technology New Generations ITNG 2024 ITNG is an annual event focusing on state of the art technologies pertaining to digital information and communications The applications of advanced information technology to such domains as astronomy biology education geosciences security and health care are the among topics of relevance to ITNG Visionary ideas theoretical and experimental results as well as prototypes designs and tools that help the information readily flow to the user are of special interest Machine Learning Robotics High Performance Computing and Innovative Methods of Computing are examples of related topics The conference features keynote speakers a best student award poster award service award a technical open panel and workshops exhibits from industry government and academia This publication is unique as it captures modern trends in IT with a balance of theoretical and experimental work Most other work focus either on theoretical or experimental but not both Accordingly we do not know of any competitive literature **Artificial**

Intelligence in Education. Posters and Late Breaking Results, Workshops and Tutorials, Industry and Innovation Tracks, Practitioners, Doctoral Consortium, Blue Sky, and WideAIED Alexandra I. Cristea, Erin Walker, Yu Lu, Olga C.

Santos, Seiji Isotani, 2025-07-23 This three volume set CCIS 2590 2592 constitutes poster papers and late breaking results workshops and tutorials practitioners industry and policy track doctoral consortium blue sky and wideAIED papers presented at the 26th International Conference on Artificial Intelligence in Education AIED 2025 held in Palermo Italy during July 22 26 2025 The 72 full papers and 73 short papers 72 of them presented as posters presented in this book were carefully reviewed and selected from 296 submissions They are organized in topical sections as follows Part I BlueSky Practitioners Industry and

Policy WideAIED Doctoral Consortium Part II Late Breaking Results Part III Late Breaking Results Workshops and Tutorials

RAG-Driven Generative AI Denis Rothman, 2024-09-30 Minimize AI hallucinations and build accurate custom generative AI pipelines with RAG using embedded vector databases and integrated human feedback Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Implement RAG's traceable outputs linking each response to its source document to build reliable multimodal conversational agents Deliver accurate generative AI models in pipelines integrating RAG real time human feedback improvements and knowledge graphs Balance cost and performance between dynamic retrieval datasets and fine tuning static data Book Description RAG Driven Generative AI provides a roadmap for building effective LLM computer vision and generative AI systems that balance performance and costs This book offers a detailed exploration of RAG and how to design manage and control multimodal AI pipelines By connecting outputs to traceable source documents RAG improves output accuracy and contextual relevance offering a dynamic approach to managing large volumes of information This AI book shows you how to build a RAG framework providing practical knowledge on vector stores chunking indexing and ranking You'll discover techniques to optimize your project's performance and better understand your data including using adaptive RAG and human feedback to refine retrieval accuracy balancing RAG with fine tuning implementing dynamic RAG to enhance real time decision making and visualizing complex data with knowledge graphs You'll be exposed to a hands on blend of frameworks like LlamaIndex and Deep Lake vector databases such as Pinecone and Chroma and models from Hugging Face and OpenAI By the end of this book you will have acquired the skills to implement intelligent solutions keeping you competitive in fields from production to customer service across any project What you will learn Scale RAG pipelines to handle large datasets efficiently Employ techniques that minimize hallucinations and ensure accurate responses Implement indexing techniques to improve AI accuracy with traceable and transparent outputs Customize and scale RAG driven generative AI systems across domains Find out how to use Deep Lake and Pinecone for efficient and fast data retrieval Control and build robust generative AI systems grounded in real world data Combine text and image data for richer more informative AI responses Who this book is for This book is ideal for data scientists AI engineers machine learning engineers and MLOps engineers If you are a solutions architect software developer product manager or project manager looking to enhance the decision making process of building RAG applications then you'll find this book useful

The Greatest Inventions Ever Jaideep Gupte, 2025-07-30 Everyday billions of people wake up on planet Earth pick up their toothbrush use a kettle run through their smartphone sit in a train bus car and head for work college school They may use a desktop laptop tablet and return home at the end of the day Some may watch some television others just grab dinner and crash out only to repeat this cycle over and over day after day The routine gets so mechanical that only a tiny fraction ever wonder how the things they used during the day were conceived in the first place Very few of these billions realize that all the little conveniences they took for granted during the day are a result of eons of deep cognitive

processes and scores of trial and error methods The masterminds behind these stunningly creative works have long remained as some far flung and unsung heroes but it is they who have made our lives as smooth as butter and as soft as velvet This book dives into the origin of all these little conveniences called Inventions the stories and minds behind them Starting with the Stone Age and spanning numerous civilizations and countries the book looks into all the defining things that have been invented so far how they work and what could be invented in the future It also takes a peek into how Inventions have shaped the relationship between countries and civilizations how they rose and fell across various civilizations and why some countries have been consistently better at inventing than other countries The book aims to ignite the spark of curiosity among the readers at the same time helping the reader appreciate the ingenuity of these unsung heroes who lie forgotten on some dusty and nondescript shelves across various libraries Without them we would still be cavemen today living out our lives like hunter gatherers

Intellectual Property Debates in South Asia Pratyush Nath Upreti, 2025-10-30 This book brings together leading scholars from South Asia and beyond to examine the development of intellectual property IP law within the national legal systems in South Asia It is the first comprehensive effort to consolidate the region's IP practices and narratives within a single edited volume Highlighting diverse approaches in countries such as India Pakistan Sri Lanka Nepal Bangladesh and Afghanistan the book embraces local legal ethos and promotes comparative studies at regional and international levels Structured in three parts Part 1 addresses IP through development and social justice lenses covering IP theory geographical indications technology transfer and decolonisation Part 2 examines recent legislative and judicial developments across the region Part 3 offers comparative insights with a focus on institutions courts and practices Each contribution addresses innovative IP practices and emerging challenges in South Asia offering a platform for further discussion among scholars policymakers and stakeholders

Ethics in Artificial Intelligence and Information Technologies Gabriela Arriagada-Bruneau, Claudia López, Marcelo Mendoza, 2025-07-29 This book addresses the challenges posed by adopting and developing new AI technologies and how they impact people Ethics the scope and the impact of technology on people are vital The book starts with the ethical aspects of AI presenting a socio technical approach to integrating Ethics into AI projects and outlines perspectives around feminism sustainability and labor transformation Next the concepts of fairness accountability and transparency are introduced discussing their implications for developing information systems such as recommender systems including aspects related to data privacy Then the book covers the relevance of natural language processing systems highlighting debias strategies and evaluation methodologies The scopes of fairness based approaches for ChatGPT and other generative text models are also introduced Finally advanced topics that include the relationship between AI and disinformation are addressed including a discussion of the scope of news generative models such as deep fakes The book ends with a discussion of the perspectives and challenges in the area The book is meant for an audience of advanced undergraduate and graduate students from all disciplines related to information systems It is

also helpful for researchers and practitioners interested in the subject

Building LLMs for Production Louis-François Bouchard, Louie Peters, 2024-05-21 This is the most comprehensive textbook to date on building LLM applications all essential topics in an AI Engineer's toolkit Jerry Liu Co founder and CEO of LlamaIndex THE BOOK WAS UPDATED ON OCTOBER 2024 With amazing feedback from industry leaders this book is an end to end resource for anyone looking to enhance their skills or dive into the world of AI and develop their understanding of Generative AI and Large Language Models LLMs It explores various methods to adapt foundational LLMs to specific use cases with enhanced accuracy reliability and scalability Written by over 10 people on our Team at Towards AI and curated by experts from Activerloop LlamaIndex Mila and more it is a roadmap to the tech stack of the future The book aims to guide developers through creating LLM products ready for production leveraging the potential of AI across various industries It is tailored for readers with an intermediate knowledge of Python What's Inside this 470 page Book Updated October 2024 Hands on Guide on LLMs Prompting Retrieval Augmented Generation RAG Fine tuning Roadmap for Building Production Ready Applications using LLMs Fundamentals of LLM Theory Simple to Advanced LLM Techniques Frameworks Code Projects with Real World Applications Colab Notebooks that you can run right away Community access and our own AI Tutor Table of Contents Chapter I Introduction to Large Language Models Chapter II LLM Architectures Landscape Chapter III LLMs in Practice Chapter IV Introduction to Prompting Chapter V Retrieval Augmented Generation Chapter VI Introduction to LangChain LlamaIndex Chapter VII Prompting with LangChain Chapter VIII Indexes Retrievers and Data Preparation Chapter IX Advanced RAG Chapter X Agents Chapter XI Fine Tuning Chapter XII Deployment and Optimization Whether you're looking to enhance your skills or dive into the world of AI for the first time as a programmer or software student our book is for you From the basics of LLMs to mastering fine tuning and RAG for scalable reliable AI applications we guide you every step of the way

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

Artificial Intelligence Tools Book Manish Soni, 2024-11-13 Welcome to the exciting and rapidly evolving world of artificial intelligence AI This book *Artificial Intelligence Tools Unlocking the Power of Intelligent Systems* is designed to be your comprehensive guide to understanding implementing and leveraging the cutting edge tools that drive the advancements in AI Whether you are a seasoned professional in the field or a curious newcomer this book aims to provide you with valuable insights and practical knowledge to navigate the multifaceted landscape of AI tools From machine learning algorithms to neural networks readers will gain insights into the core concepts that form the backbone of intelligent systems We aim to make complex ideas accessible ensuring that readers regardless of their technical background can grasp the essentials of AI Furthermore we recognize the ethical implications and societal considerations surrounding AI In a dedicated section we address the responsible use of AI tools discussing issues such as bias in algorithms transparency and accountability It is crucial for individuals working with AI to understand the ethical dimensions of their work and strive towards the development of AI systems that align with human values and promote inclusivity In addition to the technical aspects this book emphasizes the importance of continuous learning and adaptation in the rapidly evolving field of AI The final sections explore emerging trends such as reinforcement learning autonomous systems and AI driven creativity offering readers a glimpse into the future of artificial intelligence

Key Features

- 1 **Extensive Theoretical Content** The book covers the full spectrum of topics from fundamental concepts to advanced techniques Each chapter is designed to build on the previous one ensuring a logical progression and deep comprehension of the subject matter
- 2 **Online Test Papers** To reinforce your learning we provide a series of online test papers that mimic real world scenarios and challenges These tests are designed to evaluate your understanding and help you identify areas that need further study
- 3 **Video Tutorials** Understanding concepts can sometimes be challenging through text alone Our book includes links to a series of video tutorials that provide visual and auditory explanations of complex topics These videos are created by experts and are intended to complement the written material offering a more immersive learning experience
- 4 **Practical Applications** Each chapter includes real world examples and case studies that illustrate how application is applied across different industries
- 5 **Self Assessment Tools** At the end of each chapter self assessment questions and exercises allow you to test your understanding and track your progress These tools are invaluable in helping you gauge your readiness and build confidence as you move forward Whether you are an aspiring data scientist a business professional exploring AI application or an academic researcher pushing the boundaries of

knowledge Artificial Intelligence Tools is crafted to be a valuable companion on your journey As you embark on this exploration of artificial intelligence we encourage you to engage with the content experiment with the tools and contribute to the ongoing dialogue surrounding the responsible development and application of intelligent systems The future of AI is in your hands and we are excited to be part of your learning journey

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