

 Claude

 OpenAI



Openai Compare Tutorial

Bruce Hopkins Jr., Bruce Hopkins Sr.



Openai Compare Tutorial:

Large Language Models: A Deep Dive Uday Kamath, Kevin Keenan, Garrett Somers, Sarah Sorenson, 2024-08-20 Large Language Models LLMs have emerged as a cornerstone technology transforming how we interact with information and redefining the boundaries of artificial intelligence LLMs offer an unprecedented ability to understand generate and interact with human language in an intuitive and insightful manner leading to transformative applications across domains like content creation chatbots search engines and research tools While fascinating the complex workings of LLMs their intricate architecture underlying algorithms and ethical considerations require thorough exploration creating a need for a comprehensive book on this subject This book provides an authoritative exploration of the design training evolution and application of LLMs It begins with an overview of pre trained language models and Transformer architectures laying the groundwork for understanding prompt based learning techniques Next it dives into methods for fine tuning LLMs integrating reinforcement learning for value alignment and the convergence of LLMs with computer vision robotics and speech processing The book strongly emphasizes practical applications detailing real world use cases such as conversational chatbots retrieval augmented generation RAG and code generation These examples are carefully chosen to illustrate the diverse and impactful ways LLMs are being applied in various industries and scenarios Readers will gain insights into operationalizing and deploying LLMs from implementing modern tools and libraries to addressing challenges like bias and ethical implications The book also introduces the cutting edge realm of multimodal LLMs that can process audio images video and robotic inputs With hands on tutorials for applying LLMs to natural language tasks this thorough guide equips readers with both theoretical knowledge and practical skills for leveraging the full potential of large language models This comprehensive resource is appropriate for a wide audience students researchers and academics in AI or NLP practicing data scientists and anyone looking to grasp the essence and intricacies of LLMs

Key Features

- Over 100 techniques and state of the art methods including pre training prompt based tuning instruction tuning parameter efficient and compute efficient fine tuning end user prompt engineering and building and optimizing Retrieval Augmented Generation systems along with strategies for aligning LLMs with human values using reinforcement learning
- Over 200 datasets compiled in one place covering everything from pre training to multimodal tuning providing a robust foundation for diverse LLM applications
- Over 50 strategies to address key ethical issues such as hallucination toxicity bias fairness and privacy Gain comprehensive methods for measuring evaluating and mitigating these challenges to ensure responsible LLM deployment
- Over 200 benchmarks covering LLM performance across various tasks ethical considerations multimodal applications and more than 50 evaluation metrics for the LLM lifecycle
- Nine detailed tutorials that guide readers through pre training fine tuning alignment tuning bias mitigation multimodal training and deploying large language models using tools and libraries compatible with Google Colab ensuring practical application of theoretical concepts
- Over 100 practical tips for data scientists

and practitioners offering implementation details tricks and tools to successfully navigate the LLM life cycle and accomplish tasks efficiently

Artificial Intelligence in Education. Posters and Late Breaking Results, Workshops and Tutorials, Industry and Innovation Tracks, Practitioners, Doctoral Consortium and Blue Sky Andrew M. Olney,Irene-Angelica Chounta,Zitao Liu,Olga C. Santos,Ig Ibert Bittencourt,2024-07-01 This volume constitutes poster papers and late breaking results presented during the 25th International Conference on Artificial Intelligence in Education AIED 2024 which took place in Recife Brazil during July 8 12 2024 The 18 full papers and 92 short papers were carefully reviewed and selected from 200 submissions They are organized in topical sections as follows Part One Blue Sky Industry Innovation and Practitioner WideAIED and Late Breaking Results Part Two Late Breaking Results Doctoral Consortium Workshops and Tutorials

ChatGPT: How Does it Work: Complete Guide Mustafa Ali,2024-02-06 Welcome to your journey toward mastering ChatGPT This guide delves deeper into the essentials unpacking core concepts and empowering you to unleash its full potential

The Essential Guide to Prompt Engineering Vladimir Geroimenko,2025-03-17 This book provides a concise yet comprehensive guide to mastering the entire spectrum of prompt engineering from fundamental concepts to pro level techniques and essential security considerations Filled with practical examples and detailed explanations it delivers actionable knowledge that can be directly applied to AI projects The guide includes dedicated chapters on key challenges and security issues equipping readers to overcome significant obstacles they may encounter It outlines a clear pathway to the art and science of prompt engineering offering the tools and insights for a successful journey into the rapidly evolving world of generative AI With its holistic approach and coherent structure this book is an indispensable resource for AI developers professionals in related fields enthusiasts graduate and undergraduate students and anyone keen to enhance the efficiency of their interactions with AI models

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 Actueloop 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 Social Data Analytics in the Cloud with AI Xuebin Wei,Xinyue Ye,2024-12-30 The rise of cloud computing and Generative artificial intelligence AI has revolutionized data analytics pipelines Analysts can collect store and process vast datasets in the cloud with high availability and scalability and also leverage Generative AI to query and visualize datasets in natural languages This pioneering textbook provides a gateway for students educators and professionals to develop and enhance social data analytics capabilities with the latest cloud computing and AI technologies The textbook introduces educational cloud resources from leading technology companies begins with foundational concepts and progresses to advanced techniques Features The first textbook on cloud based social data analytics with the assistance of Generative AI Introduces educational cloud resources from leading technology companies like AWS GitHub and MongoDB Presents a fully AI powered data analytics pipeline from Python coding to data collection with APIs cloud based data storage natural language queries and interactive visualization Analyzes Census and social media data with the latest large language models LLMs Provides hands on exercises with real world datasets on timely issues This textbook is an excellent resource for upper level undergraduate and graduate students taking GIS Urban Informatics Social Science Data Analysis and Data Science courses faculty members teaching such courses and professionals and researchers interested in leveraging cloud computing and Generative AI in social data analytics 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 **PyTorch 1.x Reinforcement Learning Cookbook** Yuxi (Hayden) Liu,2019-10-31 Implement reinforcement learning techniques and algorithms with the help of real world examples and recipes Key FeaturesUse PyTorch 1 x to design and build

self learning artificial intelligence AI modelsImplement RL algorithms to solve control and optimization challenges faced by data scientists todayApply modern RL libraries to simulate a controlled environment for your projectsBook Description Reinforcement learning RL is a branch of machine learning that has gained popularity in recent times It allows you to train AI models that learn from their own actions and optimize their behavior PyTorch has also emerged as the preferred tool for training RL models because of its efficiency and ease of use With this book you ll explore the important RL concepts and the implementation of algorithms in PyTorch 1 x The recipes in the book along with real world examples will help you master various RL techniques such as dynamic programming Monte Carlo simulations temporal difference and Q learning You ll also gain insights into industry specific applications of these techniques Later chapters will guide you through solving problems such as the multi armed bandit problem and the cartpole problem using the multi armed bandit algorithm and function approximation You ll also learn how to use Deep Q Networks to complete Atari games along with how to effectively implement policy gradients Finally you ll discover how RL techniques are applied to Blackjack Gridworld environments internet advertising and the Flappy Bird game By the end of this book you ll have developed the skills you need to implement popular RL algorithms and use RL techniques to solve real world problems What you will learnUse Q learning and the state action reward state action SARSA algorithm to solve various Gridworld problemsDevelop a multi armed bandit algorithm to optimize display advertisingScale up learning and control processes using Deep Q NetworksSimulate Markov Decision Processes OpenAI Gym environments and other common control problemsSelect and build RL models evaluate their performance and optimize and deploy themUse policy gradient methods to solve continuous RL problemsWho this book is for Machine learning engineers data scientists and AI researchers looking for quick solutions to different reinforcement learning problems will find this book useful Although prior knowledge of machine learning concepts is required experience with PyTorch will be useful but not necessary **GPT-4 Complete** Mark Huck,2023 Mastering Python for OpenAI Mikasa Mizuki,2024-04-15 Mastering Python for OpenAI is your comprehensive guide to unlocking the power of OpenAI s revolutionary models through Python This book equips you with the skills to not only use GPT 3 but also explore a range of AI functionalities beyond text generation Get hands on with practical projects Leverage GPT 3 s capabilities for creative writing code generation and informative text formats Build powerful AI applications that utilize OpenAI s APIs Explore cutting edge tools like Dall E for image generation and Whisper for speech recognition Master the art of prompt engineering to fine tune your interactions with OpenAI s models and maximize their potential This book is perfect for Python programmers seeking to expand their skillset into the realm of AI Developers curious about leveraging OpenAI s models for their projects AI enthusiasts eager to explore the possibilities of generative AI and large language models Mastering Python for OpenAI empowers you to take the first step towards a future powered by AI **Mastering OpenAI for Enterprise** Sriram Subramanian,2025-03-11 TAGLINE Master OpenAI and Unlock the Future of AI Powered Innovation KEY FEATURES In

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Creating ChatGPT Apps with JavaScript Bruce Hopkins Jr.,Bruce Hopkins Sr.,2025-06-06 Transform your JavaScript expertise through the power of Open AI API models using Creating ChatGPT Apps with JavaScript This book will guide JavaScript developers to build smart applications while providing tangible knowledge of OpenAI s API for text summarization creating transcripts from audio files generating images and running models locally on your machine Through hands on projects and code examples readers will discover how to build AI powered apps from scratch such as using embeddings to train a Discord bot to answer customers questions in multiple languages Readers will also learn to dictate text for writing articles or blogs with a localized integration of Whisper and generate hero images with Dall E What s more in the final chapter of this book you ll be able to maximize productivity by creating a Smart Assistant like Alexa or Siri with JavaScript

and the new Raspberry Pi 5 From seasoned developers to newcomers this book offers something for everyone Not only will readers learn to build apps with ChatGPT and JavaScript but they will also learn best practices for prompt engineering They ll understand how AI models can enhance workplace efficiency and utilize natural language processing NLP to make interactions with applications feel well natural The end result is expert knowledge in leveraging ChatGPT programmatically and incorporating the technology into diverse applications What You Will Learn Gain a deeper understanding of ChatGPT and how OpenAI s models work and different ways to implement each of their various features Authenticate with ChatGPT and OpenAI s API and learn to send prompts with best practices with prompt engineering Streamline productivity and content creation by leveraging transcription generation for dictation and image generation for creating hero images Stay ahead of the game by incorporating different new features of OpenAI s API and understanding more complex concepts like using GPT 4 to train a Discord bot with an FAQ to assist with multilingual tech support Who This Book is for This book is written for JavaScript developers and hobbyists that want to use OpenAI and ChatGPT to create intelligent applications and streamline productivity No prior experience with ChatGPT or OpenAI APIs is required **ChatGPT Atlas Browser Guide 2025**

Konstantin Titov,2025-10-22 ChatGPT Atlas Browser Guide 2025 How to Use OpenAI s AI Browser Agent Mode and Browser Memories on macOS Setup Privacy Controls and Productivity Workflows Be first move fast ChatGPT Atlas is OpenAI s new chat first web browser and this is one of the first hands on guides written for real users who want results not hype Whether you re a student creator analyst or team lead this book shows you exactly how to install Atlas on macOS set it up in minutes and turn everyday browsing into automated private high leverage workflows Atlas brings ChatGPT to any page adds optional browser memories and introduces Agent Mode so it can take actions for you with guardrails you control What you ll learn step by step Install set up on macOS sign in import passwords bookmarks history and tune the new tab Ask ChatGPT experience for speed Search less finish more use on page chat for instant summaries clean citations comparisons and follow up questions without copy paste context juggling Stay in control master Incognito the address bar page visibility toggle and data controls so Atlas only sees what you allow Learn how memories are optional visible archivable and deletable Agent Mode safely let ChatGPT click around for you researching planning and completing routine tasks while respecting built in limits e g it can t run code or install extensions and your approvals Power workflows research briefs competitor scans shopping carts study aids and executive summaries you can trust For families teams understand parental controls and Business Enterprise basics so you can enable features responsibly Who this book is for Students researchers who want faster reading better notes and self tests as they learn Professionals who live in the browser and need reliable automation for docs data and decisions Creators marketers who need quick comparisons curated sources and production ready summaries Team admins parents who care about privacy transparency and safe defaults Why this guide why now Atlas changes the center of gravity from URLs and tabs to conversation and action It s chat powered browsing with privacy controls and optional

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[Mastering GPT-5](#) Marcos A Rowan,2025-08-08 Unlock the Power of GPT 5 and Transform Your Approach to AI Mastering GPT 5 is your ultimate guide to understanding using and integrating OpenAI s latest AI revolution Whether you re a developer business leader writer or AI enthusiast this

comprehensive book provides the tools techniques and real world examples you need to fully leverage the power of GPT 5 From creating innovative applications to enhancing your productivity Mastering GPT 5 shows you how to tap into the potential of this groundbreaking technology GPT 5 represents the next major leap in AI offering advanced capabilities in writing coding healthcare and more With enhanced reasoning multimodal inputs and a smarter more efficient model GPT 5 is revolutionizing industries worldwide In this step by step guide you ll discover how to harness its power for your personal or professional needs What You ll Learn Harness GPT 5 for Real World Applications Master the tools to use GPT 5 in writing software development healthcare and problem solving Boost Your Productivity Learn how to integrate GPT 5 into your daily tasks whether for content creation automating workflows or enhancing creativity Understand GPT 5 s Inner Workings Get a deep understanding of how GPT 5 thinks learns and generates insightful responses Implement AI Safely and Responsibly Learn about the safety features and ethical considerations when using AI tools like GPT 5 Explore Future AI Trends Stay ahead of the curve with expert insights on where AI is headed and how to future proof your skills Don t miss out on the opportunity to master GPT 5 and unlock new possibilities in your work projects and ideas Whether you re an AI beginner or an advanced user this book is your essential guide to understanding and using one of the most powerful AI systems ever created

The OpenAI Guide Reuben Davis,2023-02-23 The OpenAI Guide is a comprehensive and accessible resource for anyone looking to learn about artificial intelligence AI and its role in our modern world From the basics of AI and its history to the latest developments in machine learning and neural networks this guide covers all the key concepts and trends in AI today Through insightful chapters on the impact of AI in various industries including business healthcare transportation and finance readers will gain a deeper understanding of the ways AI is already shaping our world and its potential for the future The guide also delves into the ethical considerations and potential risks of AI as well as the steps involved in building an AI system and the current research trends in the field Whether you are a business leader a student or a curious individual looking to learn more about AI The OpenAI Guide provides a comprehensive and engaging introduction to this exciting and rapidly evolving field

GPT-5 Made Simple Daniel S Rottman,2025-08-09 Unlock the full power of GPT 5 without the confusion OpenAI s GPT 5 is the most advanced AI model yet capable of writing problem solving analyzing data generating ideas and much more But with so much hype it can be hard to know where to start That s where GPT 5 Made Simple comes in Written in plain language Daniel S Rottman s guide shows you exactly what GPT 5 is how it works and most importantly how you can use it in your daily life and work Inside you ll discover how to Use GPT 5 to write faster research deeper and think clearly Turn ideas into polished content in minutes Boost productivity with AI assisted workflows Ask better prompts for more accurate answers Avoid common mistakes that waste time and give bad results Stay safe ethical and responsible with AI tools Whether you re a student entrepreneur writer or simply curious this book gives you the confidence to use GPT 5 effectively and the insight to stay ahead as AI keeps improving Don t get left behind Start using GPT 5 to your advantage

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