



Openai In The Us Tutorial

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Openai In The Us Tutorial:

Explainable Artificial Intelligence for Trustworthy Decisions in Smart Applications Nicu Bizon, Bhargav

Appasani, 2025-09-30 This book introduces readers to the field of explainable artificial intelligence XAI which aims to make AI models more transparent and trustworthy. It explores how XAI can enhance trust and confidence in AI models and their decisions across various innovative applications in fields such as healthcare, finance and engineering where AI can significantly impact quality of life. Readers will discover emerging trends related to XAI such as large language models, generative AI and natural language processing that are transforming the landscape of AI research and applications. Featuring an interdisciplinary overview, the book examines the state of the art challenges and opportunities in XAI, accompanied by clear examples and detailed explanations of its methods and techniques. The book also offers a balanced perspective on the limitations and trade offs of XAI and outlines future directions and opportunities for both research and practice. This book is intended for anyone who wants to learn more about XAI and understand how it can enhance trust in AI models.

Building

LLM Powered Applications Valentina Alto, 2024-05-22 Get hands on with GPT 3 5 GPT 4 LangChain Llama 2 Falcon LLM and more to build LLM powered sophisticated AI applications. Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Embed LLMs into real world applications Use LangChain to orchestrate LLMs and their components within applications. Grasp basic and advanced techniques of prompt engineering. Book Description Building LLM Powered Applications delves into the fundamental concepts, cutting edge technologies and practical applications that LLMs offer, ultimately paving the way for the emergence of large foundation models LFMs that extend the boundaries of AI capabilities. The book begins with an in depth introduction to LLMs. We then explore various mainstream architectural frameworks including both proprietary models GPT 3 5 4 and open source models Falcon LLM and analyze their unique strengths and differences. Moving ahead with a focus on the Python based lightweight framework called LangChain we guide you through the process of creating intelligent agents capable of retrieving information from unstructured data and engaging with structured data using LLMs and powerful toolkits. Furthermore the book ventures into the realm of LFM which transcend language modeling to encompass various AI tasks and modalities such as vision and audio. Whether you are a seasoned AI expert or a newcomer to the field this book is your roadmap to unlock the full potential of LLMs and forge a new era of intelligent machines. What you will learn Explore the core components of LLM architecture including encoder decoder blocks and embeddings. Understand the unique features of LLMs like GPT 3 5 4 Llama 2 and Falcon LLM. Use AI orchestrators like LangChain with Streamlit for the frontend. Get familiar with LLM components such as memory prompts and tools. Learn how to use non parametric knowledge and vector databases. Understand the implications of LFM for AI research and industry applications. Customize your LLMs with fine tuning. Learn about the ethical implications of LLM powered applications. Who this book is for Software engineers and data scientists who want hands on guidance for applying

LLMs to build applications The book will also appeal to technical leaders students and researchers interested in applied LLM topics We don t assume previous experience with LLM specifically But readers should have core ML software engineering fundamentals to understand and apply the content **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

Deep Reinforcement Learning Aske Plaat,2022-06-10 Deep reinforcement learning has attracted considerable attention recently Impressive results have been achieved in such diverse fields as autonomous driving game playing molecular recombination and robotics In all these fields computer programs have taught themselves to understand problems that were previously considered to be very difficult In the game of Go the program AlphaGo has even learned to outmatch three of the world s leading players Deep reinforcement learning takes its inspiration from the fields of biology and psychology Biology has inspired the creation of artificial neural networks and deep learning while psychology studies how animals and humans learn and how subjects desired behavior can be reinforced with positive and negative stimuli When we see how reinforcement learning teaches a simulated robot to walk we are reminded of how children learn through playful exploration Techniques that are inspired by biology and psychology work amazingly well in computers animal behavior and the structure of the brain as new blueprints for science and engineering In fact computers truly seem to possess aspects of human behavior as such this field goes to the heart of the dream of artificial intelligence These research advances have not gone unnoticed by educators Many universities have begun offering courses on the subject of deep reinforcement learning The aim of this book is to provide an overview of the field at the proper level of detail for a graduate course in artificial intelligence It covers the complete field from the basic algorithms of Deep Q learning to advanced topics such as multi agent reinforcement learning and meta learning

Practical IoT Handbook Rodrigo J Hernandez,2025-05-31 DESCRIPTION The field of the IoT is fundamentally reshaping how physical objects interact with digital systems through enhanced connectivity and embedded intelligence This book serves as an indispensable resource guiding readers through the essential principles and techniques required to unlock the full potential of IoT From foundational concepts to the development of innovative real world applications this handbook offers a structured step by step approach for anyone seeking either a comprehensive introduction or an opportunity to expand their expertise in this transformative domain The book begins with hands on projects that guide readers through the essentials of IoT development combining foundational knowledge with practical application Readers will work with popular development boards like the ESP8266 ESP32 Raspberry Pi Pico and Raspberry Pi 4 while learning key hardware concepts and setting up a development environment using free open source tools such as Arduino IDE Python and Visual Studio Code Core IoT topics include programming microcontrollers interfacing with sensors and actuators and using communication protocols like MQTT CoAP and HTTP The book also covers storing and visualizing data with InfluxDB and Grafana By the end of this book readers will have developed a solid foundation in IoT programming along with the practical skills and theoretical understanding necessary to design build and deploy effective IoT solutions The book prepares readers to undertake a wide range of IoT projects and contribute meaningfully to this rapidly advancing field WHAT YOU WILL LEARN ESP32 ESP8266 Raspberry Pi interfacing and programming tools Arduino Python VSC Connect and use sensors and actuators with the microcontrollers and the Raspberry Pi 4 computer Learn about open source systems Node RED InfluxDB Grafana Home Assistant and OpenHAB Interface diverse sensors actuators master GPIO MQTT CoAP HTTP protocols Design and implement connected systems for environmental and home automation WHO THIS BOOK IS FOR This book is for students pursuing tech careers tech enthusiasts hobbyists makers and software developers interested in learning IoT programming Basic programming knowledge and familiarity with electronics concepts will be beneficial but not strictly required as the book guides you from the fundamentals TABLE OF CONTENTS 1 Meet the Boards 2 Installing the Software Environment 3 Microcontrollers Sensors and Actuators 4 Interfacing with Raspberry Pi 5 Connecting IoT Devices using MQTT 6 CoAP for IoT Connectivity 7 Using HTTP and WebSockets in IoT 8 Storing Internet of Things Data 9 Visualizing Internet of Things Data 10 Building a Weather Station 11 Home Automation

ChatGPT eBook GURMEET SINGH DANG, **Information and**

Communication Technologies in Education, Research, and Industrial Applications Vadim Ermolayev,Igor Potapov,Oleksii Ignatenko,Roman Hornung,Andrii Hlybovets,Vitaliy Yakovyna,Yaroslav Prytula,Oleksandr Spivakovsky,2025-02-25 This book constitutes the proceedings of the 19th International Conference on Information and Communication Technologies in Education Research and Industrial Applications ICTERI 2024 held in Lviv Ukraine during September 23 27 2024 The 29 full papers 2 short papers and 3 keynote papers included in this volume were carefully reviewed and selected from 83 submissions They were organized in topical sections as follows main conference PhD

symposium and research in progress [Adversarial AI Attacks, Mitigations, and Defense Strategies](#) John Sotirooulos, 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. Free with your book: DRM free PDF version, access to Packt's next gen Reader 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 Description: Adversarial 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. 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 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. Email sign up and proof of purchase required. 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 defense. 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. **[Healthcare Applications of Neuro-Symbolic Artificial Intelligence](#)** Boris Galitsky, 2025-08-01 Healthcare Applications of Neuro-Symbolic Artificial Intelligence provides a comprehensive introduction to the field of neuro-symbolic NS artificial intelligence AI, presenting the most recent advances in

deep learning and integration of NS systems and large language models LLMs This book evaluates traditional approaches current approaches as well as the author s own approach to NS to create hybrid architectures and reasoning techniques to overcome the limitations of most existing AI systems such as deep learning neural networks and symbolic AI This book will be a welcome resource for researchers and graduate students in AI natural language processing and biomedical informatics as well as professionals in software development looking to redesign current systems to leverage LLMs through the health application of NS architecture Presents a comprehensive introduction to the field of neuro symbolic AI in health explaining hybrid architectures and reasoning techniques Provides hands on training in navigating deep learning resources and APIs including HuggingFace and GitHub as well as reasoning systems like Prolog Describes buildable scalable neuro symbolic systems that can perform search recommendation content writing diagnosis treatment planning and educational support

OPENAI PRASATH. SRIDHAR,2024 **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 and the Us Government Alejandro S Diego,2024-08-07 GPT 5 AND THE US GOVERNMENT Inside the AI Frontier and Beyond In a world where artificial intelligence is rapidly transforming industries and reshaping our lives GPT 5 AND THE US GOVERNMENT Inside the AI Frontier and Beyond takes you behind the scenes of the most groundbreaking AI collaboration of our time Discover how OpenAI s cutting edge GPT 5 model in partnership with the US government is setting new standards for AI development and governance Why should you read this book If you re fascinated by the potential of AI to revolutionize healthcare education finance and the creative arts this book is a must read It offers an in depth exploration of GPT 5 s expected capabilities and the significant innovations that are set to redefine the AI landscape Learn how this powerful AI model can analyze vast medical data create personalized learning experiences enhance financial decision making and inspire unprecedented creativity What will you discover The Story Behind the Collaboration Uncover the motivations and goals behind OpenAI s partnership with the US AI Safety Institute and understand the importance of integrating safety and ethical considerations into AI development Global Implications Gain insights into how this collaboration is influencing global AI development and the potential emergence of AI nationalism Explore the strategic importance of AI in geopolitics and the need for international

cooperation Data Privacy and Security Delve into the critical concerns surrounding data privacy federal access to AI s inner workings and the measures taken to safeguard user data Learn about the transparency and accountability mechanisms that build public trust in AI technologies Ethical Guidelines and Safeguards Understand the need for robust ethical guidelines and the safeguards put in place to prevent misuse of AI Discover the efforts to balance innovation with ethical considerations to maximize AI s benefits while minimizing its risks Who needs to read this book Whether you re an AI enthusiast a tech industry professional a policymaker or simply someone curious about the future of technology this book offers valuable insights into the next frontier of AI development It s also essential reading for anyone concerned about the ethical implications and societal impacts of advanced AI systems When should you read this book Now is the perfect time to dive into the world of GPT 5 and its groundbreaking collaboration with the US government As AI technologies continue to advance at a rapid pace staying informed and engaged is crucial This book provides the knowledge and context you need to understand the current state of AI and its future trajectory Don t miss out on this compelling exploration of the future of artificial intelligence GPT 5 AND THE US GOVERNMENT Inside the AI Frontier and Beyond is your guide to understanding the profound changes AI is bringing to our world Get your copy today and join the conversation about the responsible development and deployment of AI technologies Embrace the future with knowledge and insight and be a part of the journey as we navigate the AI frontier together

Hands-On Intelligent Agents with OpenAI Gym

Praveen Palanisamy, 2018-07-31 Implement intelligent agents using PyTorch to solve classic AI problems play console games like Atari and perform tasks such as autonomous driving using the CARLA driving simulator Key Features Explore the OpenAI Gym toolkit and interface to use over 700 learning tasks Implement agents to solve simple to complex AI problems Study learning environments and discover how to create your own Book Description Many real world problems can be broken down into tasks that require a series of decisions to be made or actions to be taken The ability to solve such tasks without a machine being programmed requires a machine to be artificially intelligent and capable of learning to adapt This book is an easy to follow guide to implementing learning algorithms for machine software agents in order to solve discrete or continuous sequential decision making and control tasks Hands On Intelligent Agents with OpenAI Gym takes you through the process of building intelligent agent algorithms using deep reinforcement learning starting from the implementation of the building blocks for configuring training logging visualizing testing and monitoring the agent You will walk through the process of building intelligent agents from scratch to perform a variety of tasks In the closing chapters the book provides an overview of the latest learning environments and learning algorithms along with pointers to more resources that will help you take your deep reinforcement learning skills to the next level What you will learn Explore intelligent agents and learning environments Understand the basics of RL and deep RL Get started with OpenAI Gym and PyTorch for deep reinforcement learning Discover deep Q learning agents to solve discrete optimal control tasks Create custom learning environments for real world

problems. Apply a deep actor critic agent to drive a car autonomously in CARLA. Use the latest learning environments and algorithms to upgrade your intelligent agent development skills. Who this book is for: If you're a student, game machine learning developer, or AI enthusiast looking to get started with building intelligent agents and algorithms to solve a variety of problems with the OpenAI Gym interface, this book is for you. You will also find this book useful if you want to learn how to build deep reinforcement learning based agents to solve problems in your domain of interest. Though the book covers all the basic concepts that you need to know, some working knowledge of Python programming language will help you get the most out of it.

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OpenAI's O1 Model

Carl W Pratt, 2024-09-14. Are you ready to dive into the future of artificial intelligence? In OpenAI's O1 Model: Breaking Through Agentic Workflows and Human-Like Reasoning, you'll embark on an electrifying journey into the cutting-edge technology that is reshaping how we think about AI. This isn't just another AI upgrade; it's a revolution. OpenAI's O1 model is here to change everything from how we interact with machines to how we solve problems in coding, physics, and beyond. Have you ever wondered what it would be like to have an AI that thinks like a human, adapts to your needs, and handles even the most complex tasks with ease? This book pulls back the curtain on OpenAI's most advanced model yet, revealing how O1 is not only redefining AI workflows but also simplifying them for everyday use. Whether you're a tech enthusiast, a professional seeking the latest in AI advancements, or someone who simply wants to understand how the future is being shaped, this book is for you. Why should you read this book? Because the O1 model represents a monumental shift in AI technology. It moves beyond basic prompt-based systems to autonomous reasoning and goal-first thinking. This book will show you how O1 is leading the charge in AI research, breaking down its remarkable features and real-world applications in a way that's engaging and easy to understand. From coding breakthroughs to creative tasks, O1 is setting a new standard, and you'll see why this matters to you and your future. What will you discover inside? You'll learn how O1's agentic workflows make complex tasks simple, how its human-like reasoning is pushing the boundaries of what AI can achieve, and why its competitive pricing is a game-changer. You'll also uncover how O1 is outperforming its rivals and making AI accessible for everyone, from small businesses to large enterprises. This is the inside story of how OpenAI is shaping the future, and it's a future you don't want to miss. When is the right time to explore this? Now. AI is evolving rapidly, and understanding models like O1 will give you a front-row seat to the technology that's driving the next era of innovation. If

you're passionate about staying ahead of the curve learning about the tools that will soon be essential in every industry and seeing how AI can enhance your work and life this book is your guide Who needs to read this book Whether you're an AI researcher a tech entrepreneur a developer or someone simply curious about the future of technology this book is for you If you want to understand how AI is moving from a tool we use to a partner we collaborate with then OpenAI's o1 Model is a must read The future of AI is unfolding before your eyes don't get left behind Get your copy now and take the first step toward understanding the AI revolution that's just getting started OpenAI's o1 model is more than technology it's the key to unlocking a future where machines don't just work for us they think with us Discover Learn Lead Be part of the AI revolution today

Azure OpenAI Service for Cloud Native Applications Adrián González Sánchez, 2024-06-27 Get the details examples and best practices you need to build generative AI applications services and solutions using the power of Azure OpenAI Service With this comprehensive guide Microsoft AI specialist Adrián González Sánchez examines the integration and utilization of Azure OpenAI Service using powerful generative AI models such as GPT 4 and GPT 4o within the Microsoft Azure cloud computing platform To guide you through the technical details of using Azure OpenAI Service this book shows you how to set up the necessary Azure resources prepare end to end architectures work with APIs manage costs and usage handle data privacy and security and optimize performance You'll learn various use cases where Azure OpenAI Service models can be applied and get valuable insights from some of the most relevant AI and cloud experts Ideal for software and cloud developers product managers architects and engineers as well as cloud enabled data scientists this book will help you Learn how to implement cloud native applications with Azure OpenAI Service Deploy customize and integrate Azure OpenAI Service with your applications Customize large language models and orchestrate knowledge with company owned data Use advanced roadmaps to plan your generative AI project Estimate cost and plan generative AI implementations for adopter companies

[OpenAI Function Calling Techniques](#) William Smith, 2025-08-19 OpenAI Function Calling Techniques Unlock the full potential of language model powered applications with OpenAI Function Calling Techniques an in depth and comprehensive guide for architects developers and researchers at the forefront of AI integration This expertly structured volume details the evolution of OpenAI's function calling APIs dissecting core concepts like schema validation intent extraction and robust security within production environments Readers are invited to explore the intricate mechanics driving function invocation structured prompting backward compatibility and resilient error handling all essential components for constructing enterprise grade function augmented workflows Diving deeper the book delivers practical strategies for advanced prompt engineering effective schema design and multi step function orchestration It unveils methods to harmonize conversational agents with structured function calls empowering applications to interpret user intent maintain dialogue continuity and personalize responses dynamically Extensive chapters are devoted to building integrations with external services databases and legacy environments all while maintaining peak performance reliability and rigorous observability

through state of the art scaling monitoring and logging practices. Rounding out the text special focus is given to crucial topics such as security privacy and regulatory compliance including threat modeling input validation and auditability as well as cutting edge advances in cross modal federated and autonomous function calling. Comprehensive testing patterns and CI CD pipelines ensure maintainability and future proof operation while the concluding chapters survey the emerging ethical societal and standardization trends shaping the next generation of LLM driven systems. OpenAI Function Calling Techniques stands as both a practical manual and a visionary blueprint for anyone engineering the future of intelligent automation.

OpenAI Unveiled Angela Carol Hughes, 2024-03-30 OpenAI Unveiled A Comprehensive Guide to Learning and Harnessing AI Innovations is an exceptional book that offers an in depth exploration of the world of artificial intelligence. AI Written by experts from OpenAI a prominent research lab this book is suitable for beginners and industry professionals looking to understand AI concepts applications and ethical considerations. The book provides a realistic view of AI showcasing its capabilities and limitations. It balances theory with practical implementation guiding readers through the basics to advanced AI skills. With a step by step approach readers can enhance their knowledge and apply AI to real world problems. Starting with a history of AI the book explains key concepts like machine learning deep learning and neural networks. It uses practical examples and case studies to illustrate technical aspects encouraging critical thinking. The book covers a range of AI applications such as natural language processing computer vision robotics and autonomous systems showcasing their impact on daily life. OpenAI Unveiled also addresses ethical issues related to AI including data privacy bias explainability and employment displacement. It encourages responsible development and implementation of AI technology. The book includes hands on exercises and interviews with AI experts offering practical experience and insights into the future of AI. Whether you're an AI enthusiast professional or someone curious about AI OpenAI Unveiled is a valuable resource. It equips readers with the knowledge and skills to navigate the evolving landscape of AI empowering them to leverage its potential while understanding its societal implications. Dive into the world of AI with OpenAI Unveiled and embrace the opportunities that this transformative technology offers.

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Azure OpenAI Service for Cloud Native Applications Adrián González Sánchez, 2024-06-27 Get the details examples and best practices you need to build generative AI applications services and solutions using the power of Azure OpenAI Service. With this comprehensive guide

Microsoft AI specialist Adrián González Sánchez examines the integration and utilization of Azure OpenAI Service using powerful generative AI models such as GPT 4 and GPT 4o within the Microsoft Azure cloud computing platform. To guide you through the technical details of using Azure OpenAI Service, this book shows you how to set up the necessary Azure resources, prepare end-to-end architectures, work with APIs, manage costs and usage, handle data privacy and security, and optimize performance. You'll learn various use cases where Azure OpenAI Service models can be applied and get valuable insights from some of the most relevant AI and cloud experts. Ideal for software and cloud developers, product managers, architects, and engineers as well as cloud-enabled data scientists, this book will help you learn how to implement cloud-native applications with Azure OpenAI Service. Deploy, customize, and integrate Azure OpenAI Service with your applications. Customize large language models and orchestrate knowledge with company-owned data. Use advanced roadmaps to plan your generative AI project. Estimate cost and plan generative AI implementations for adopter companies.

Discover tales of courage and bravery in this empowering ebook, **Openai In The Us Tutorial**. In a downloadable PDF format (PDF Size: *), this collection inspires and motivates. Download now to witness the indomitable spirit of those who dared to be brave.

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