Openai In The Us

Katrin Zwirglmaier

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Deploying Artificial Intelligence to Achieve the UN Sustainable Development Goals Arthur Guseni Oliver Mutambara,2025-07-01 This book provides research insights into how Artificial Intelligence AI can be used to achieve the UN s Sustainable Development Goals SDGs 17 interconnected goals designed to address the world s most pressing challenges by 2030 It reviews the SDGs and discusses why progress has been mixed and uneven across different countries regions and goals The book posits that attaining the SDGs will depend on enhanced global cooperation increased funding improved infrastructure public private partnerships regional continental integration addressing the climate crisis inclusive economic transformation and visionary leadership More specifically the publication advocates leveraging innovative and transformative technologies particularly the deployment of AI The research acknowledges the risks of digital imperialism data colonialism and technological exclusion especially in emerging and least industrialised economies Hence in deploying AI to achieve the SDGs the book puts a premium on decoloniality in AI systems and democratising AI technology Provides a critique of the current SDGs approach by reframing the goals as a comprehensive risk assessment of humanity s most pressing threats in the 21st century Features broad and holistic interventions to accelerate the attainment of the SDGs Provides a comprehensive but accessible introduction to AI concepts and advanced innovations such as AlphaFold ChatGPT 4 DeepSeek R1 Grok 3 and autonomous vehicles drones and driverless cars Discusses the AI strategies of leading economies and assesses the impact of AI on geopolitics Provides a comprehensive critique of global AI efforts by the UN and African Union while proffering alternative paradigms and frameworks Presents the enablers drivers and strategic framework of AI deployment to achieve the SDGs Develops and presents details of six distinct but related components of a novel Strategic Framework for developing and adopting AI Vision Strategy Policy Governance Legislation Regulations and Implementation Matrix Outlines specific ways that AI can be deployed to achieve each of the 17 SDGs and reviews seven countries experiences Explores an innovative forward looking and technology driven framework for equitable global socio economic transformation to succeed the SDGs post 2030   *Artificial Intelligence* Arthur G.O. Mutambara,2025-04-09 This book presents contextualised and detailed research on Artificial Intelligence AI and the Global South It examines the key challenges of these emerging and least industrialised countries while proffering holistic and comprehensive solutions The book then explains how AI as part of these broad interventions can drive Global South economies to achieve inclusive development and shared prosperity The book outlines how countries can swiftly prepare to adopt and develop AI across all sectors It presents novel national regional and continental AI adoption development and implementation frameworks Features Broad non AI interventions and prescriptions to address Global South challenges A comprehensive but accessible introduction to AI concepts technology infrastructure systems and innovations such as AlphaFold ChatGPT 4 and DeepSeek R1 An overview of AI related technologies such as quantum computing battery energy storage systems 3D printing nanotechnology IoT and blockchain

How to prepare emerging economies to unlock the benefits of AI while mitigating the risks Discussion of specific AI applications in 11 critical Global South sectors Details of 11 sector case studies of AI adoption in the Global South and Global North Ten country case studies Sharing emergent AI experiences in the Global South AI adoption framework vision strategy policy governance legislation regulation and implementation matrix A framework for democratising and decolonising AI The value proposition for AI research development and ownership in the Global South A case for the participation of the Global South in the AI semiconductor industry This book is aimed at policymakers business leaders graduate students academics researchers strategic thinkers and world leaders seeking to understand and leverage the transformative role of AI based systems in achieving inclusive development economic transformation and shared prosperity **Azure AI-102 Certification Essentials** Peter T. Lee,2025-08-14 Go beyond AI 102 certification by mastering the foundations of Azure AI concepts and services reinforced through practical labs and real world examples Free with your book DRM free PDF version access to Packt s next gen Reader Key Features Solidify your understanding with targeted questions at the end of each chapter Assess your knowledge of key concepts with over 45 exam style questions complete with detailed explanations Get hands on experience with GitHub projects along with ongoing support from the author on GitHub Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionWritten by a seasoned solutions architect and Microsoft AI professional with over 25 years of IT experience Azure AI 102 Certification Essentials will help you gain the skills and knowledge needed to confidently pass the Azure AI 102 certification exam and advance your career This comprehensive guide covers all of the exam objectives from designing AI solutions to integrating AI models into Azure services By combining theoretical concepts with visual examples hands on exercises and real world use cases the chapters teach you how to effectively apply your new found knowledge The book emphasizes responsible AI practices addressing fairness reliability privacy and security while guiding you through testing AI models with diverse data and navigating legal considerations Featuring the latest Azure AI tools and technologies each chapter concludes with hands on exercises to reinforce your learning culminating in Chapter 11 s comprehensive set of 45 mock questions that simulate the actual exam and help you assess your exam readiness By the end of this book you ll be able to confidently design implement and integrate AI solutions on Azure while achieving this highly sought after certification Email sign up and proof of purchase requiredWhat you will learn Learn core concepts relating to AI LLMs NLP and generative AI Build and deploy with Azure AI Foundry CI CD and containers Manage and secure Azure AI services with built in tools Apply responsible AI using Azure AI Content Safety Perform OCR and analysis with Azure AI Vision Build apps with the Azure AI Language and Speech services Explore knowledge mining with Azure AI Search and Content Understanding Implement RAG and fine tuning with Azure OpenAI Build agents using Azure AI Foundry Agent Service and Semantic Kernel Who this book is for If you re preparing for the Azure AI 102 certification exam this book is for you Developers engineers and career transitioners moving from traditional software development to AI focused roles can use

this guide to deepen their understanding of AI within the Azure ecosystem This book is also beneficial for students and educators looking to apply AI ML concepts using Azure No prior experience in AI ML is required as this book provides comprehensive coverage of exam topics with detailed explanations practical examples and hands on exercises to build your confidence and expertise   Generative Artificial Intelligence. World Intellectual Property Organization,2024-07-03 In this WIPO Patent Landscape Report on Generative AI discover the latest patent trends for GenAI with a comprehensive and up to date understanding of the GenAI patent landscape alongside insights into its future applications and potential impact The report explores patents relating to the different modes models and industrial application areas of GenAI   **Four Battlegrounds** Paul Scharre,2023-02-28 An NPR 2023 Books We Love Pick One of the Next Big Idea Club s Must Read Books An invaluable primer to arguably the most important driver of change for our future P W Singer author of Burn In An award winning defense expert tells the story of today s great power rivalry the struggle to control artificial intelligence A new industrial revolution has begun Like mechanization or electricity before it artificial intelligence will touch every aspect of our lives and cause profound disruptions in the balance of global power especially among the AI superpowers China the United States and Europe Autonomous weapons expert Paul Scharre takes readers inside the fierce competition to develop and implement this game changing technology and dominate the future Four Battlegrounds argues that four key elements define this struggle data computing power talent and institutions Data is a vital resource like coal or oil but it must be collected and refined Advanced computer chips are the essence of computing power control over chip supply chains grants leverage over rivals Talent is about people which country attracts the best researchers and most advanced technology companies The fourth battlefield is maybe the most critical the ultimate global leader in AI will have institutions that effectively incorporate AI into their economy society and especially their military Scharre s account surges with futuristic technology He explores the ways AI systems are already discovering new strategies via millions of war game simulations developing combat tactics better than any human tracking billions of people using biometrics and subtly controlling information with secret algorithms He visits China s National Team of leading AI companies to show the chilling synergy between China s government private sector and surveillance state He interviews Pentagon leadership and tours U S Defense Department offices in Silicon Valley revealing deep tensions between the military and tech giants who control data chips and talent Yet he concludes that those tensions inherent to our democratic system create resilience and resistance to autocracy in the face of overwhelmingly powerful technology Engaging and direct Four Battlegrounds offers a vivid picture of how AI is transforming warfare global security and the future of human freedom and what it will take for democracies to remain at the forefront of the world order   **Proceedings of the International Conference on Law and Technology (ICLT 2025)** Tabrez Ahmad,Rashmi Kunebelakere Siddappa,Azimkhan B. Pathan,Farhana Helal Mehtab,Upankar Chutia,2026-01-25 This open access book presents the select proceedings of the International Conference on Law and Technology ICLT 2025   *A Research Agenda*

for EU Copyright Law Enrico Bonadio,Caterina Sganga,2025-03-12 This Research Agenda provides fresh insights into fundamental issues within EU copyright law Expert authors highlight recent trends in the scholarship and discuss the challenges posed by novel technologies such as AI and NFTs They expand on the need to update the law to adapt to change and present innovative analyses of various strategies to influence EU copyright policies   *Artificial Intelligence Law* Edward Swan,2024-03-18 It is inevitable given the enormous media driven concern generated by the recent application of artificial intelligence AI to an ever expanding spectrum of day to day human experience that the need for a clearly articulated legal response has become imperative This book both clarifies the controversial issues surrounding the use of AI and explores in great detail how far from being unregulated the creation distribution and operation of AI systems currently is and will remain subject to a vast array of existing laws and regulations all over the world Demonstrating beyond any doubt that the traditional concepts of legal responsibility including duty of care negligence and compensation for damages will always be applicable to those humans who create and or use artificially intelligent things or systems the author shows how AI systems are clearly implicated in numerous existing legal regimes including the following relevant provisions under international law and EU law applicable provisions in the laws of the United States the United Kingdom France China India Japan South Korea and Singapore and numerous national provisions in the legal fields of health and safety intellectual property competition privacy and data protection and military engagement However given the lack of international consensus on this vitally important issue the author suggests that any worldwide agreement on the legal responsibilities relating to the use of AI will need to be carefully defined and that provisions will need to be reviewed to determine how they will apply to any new range of artificially intelligent creations The purpose of this book is to review those legal concepts throughout the world that currently govern the application of AI and to comment on modifications or extensions of the rule of law that are being proposed as necessary to serve and protect humanity in relation to the expanding applications of AI It is important that anyone who uses or is affected by AI products understands the relationship between existing laws and regulations in major markets around the world and those areas where initial regulations may be required For them for their counsel and for the various policy and regulatory authorities confronted with AI issues this book will prove an essential guide   *Introduction to Generative AI, Second Edition* Numa Dhamani,2026-01-13 Get up to speed quickly with generative AI AI tools like ChatGPT and Gemini automated coding tools like Cursor and Copilot and countless LLM powered agents have become a part of daily life They ve also spawned a storm of misinformation hype and doomsaying that makes it tough to understand exactly what Generative AI actually is and what it can really do Introduction to Generative AI Second Edition delivers a clearly written survey of generative AI fundamentals along with the techniques and strategies you need to use AI safely and effectively In this easy to read introduction you ll learn How large language models LLMs work How to apply AI across personal and professional work The social legal and policy landscape around generative AI Emerging trends like reasoning models and

vibe coding Introduction to Generative AI Second Edition guides you from your first eye opening interaction with tools like ChatGPT to how AI tools can transform your personal and professional life safely and responsibly This second edition has been completely revised to reflect the latest developments in the field from the latest innovations in prompt engineering and AI agents to fresh coverage of multimodal training reasoning models no code tools retrieval augmented generation RAG and more About the book Introduction to Generative AI Second Edition is an up to date guide to the capabilities risks and limitations of tools like ChatGPT Gemini and Claude This easy to follow guide moves quickly through the basics giving you the skills and understanding to use AI with confidence Along the way you ll explore how AI is impacting even established industries with an expert level look at global investment in AI AI education policy AI s economic impact and the ongoing legal and ethical issues of AI usage About the reader For anyone interested in generative AI No technical experience required About the author Numa Dhamani is a natural language processing expert working at the intersection of technology and society Maggie Engler is an engineer and researcher currently working on safety for large language models **Leadership 2.0 in processes of a sustainable change** Prof. Dr. Michael Kurwan,2025-06-30 Document from the year 2025 in the subject Leadership and Human Resources Leadership language English abstract In order to successfully implement sustainable changes in a company in the context of change processes strong leadership is required at the top of a company which should have a great deal of empathy and a sure instinct in order to position the company in the market in the long term and profitably In order to successfully shape these sustainable changes it will not be the famous power of the leader of the past but will only work with the involvement of employees in the new world of work in the knowledge age which is characterized by digitalization and artificial intelligence This new form of leadership is also referred to as Leadership 2 0 in which it is important to retain top performers and in particular key personnel in the company in the long term which is a very challenging leadership task in HR management In change processes a fundamental distinction must be made between incremental change management and radical change management While incremental change takes place continuously and is integrated into everyday working life radical change represents a strategic realignment of the company which is largely associated with staff reductions and is intended to change the corporate culture This is particularly true in the case of restructuring where cost cutting programs play a decisive role in ensuring the long term survival of the company Employees are more willing to go along with incremental change also known as continuous improvement than radical change as they could also be affected by staff cuts This fuels employees fears and therefore often leads to high staff turnover **Data Pipelines with Apache Airflow, Second Edition** Julian de Ruiter,Ismael Cabral,Kris Geusebroek,Daniel van der Ende,Bas Harenslak,2026-02-10 Data Pipelines with Apache Airflow has empowered thousands of data engineers to build more successful data platforms This new second edition has been fully revised for Airflow 3 with coverage of all the latest features of Apache Airflow including the Taskflow API deferrable operators and Large Language Model integration Filled with real

world scenarios and examples you ll be carefully guided from Airflow novice to expert Using real world scenarios and examples this book teaches you how to simplify and automate data pipelines reduce operational overhead and smoothly integrate all the technologies in your stack Part reference and part tutorial each technique is illustrated with engaging hands on examples from training machine learning models for generative AI to optimizing delivery routes In Data Pipelines with Apache Airflow Second Edition you ll learn how to Master the core concepts of Airflow architecture and workflow design Schedule data pipelines using the Dataset API and time tables including complex irregular schedules Develop custom Airflow components for your specific needs Implement comprehensive testing strategies for your pipelines Apply industry best practices for building and maintaining Airflow workflows Deploy and operate Airflow in production environments Orchestrate workflows in container native environments Build and deploy Machine Learning and Generative AI models using Airflow About the Technology Apache Airflow provides a unified platform for collecting consolidating cleaning and analyzing data With its easy to use UI powerful scheduling and monitoring features plug and play options and flexible Python scripting Airflow makes it easy to implement secure consistent pipelines for any data or AI task About the book Data Pipelines with Apache Airflow Second Edition teaches you how to build monitor and maintain effective data workflows This new edition adds comprehensive coverage of Airflow 3 features such as event driven scheduling dynamic task mapping DAG versioning and Airflow s entirely new UI The numerous examples address common use cases like data ingestion and transformation and connecting to multiple data sources along with AI aware techniques such as building RAG systems What s inside Deploying data pipelines as Airflow DAGs Time and event based scheduling strategies Integrating with databases LLMs and AI models Deploying Airflow using Kubernetes About the reader For data engineers machine learning engineers DevOps and sysadmins with intermediate Python skills About the author Julian de Ruiter Ismael Cabral Kris Geusebroek Daniel van der Ende and Bas Harenslak are seasoned data engineers and Airflow experts Table of Contents Part 1 1 Meet Apache Airflow 2 Anatomy of an Airflow DAG 3 Time based scheduling 4 Asset aware scheduling 5 Templating tasks using the Airflow context 6 Defining dependencies between tasks Part 2 7 Triggering workflows with external input 8 Communicating with external systems 9 Extending Airflow with custom operators and sensors 10 Testing 11 Running tasks in containers Part 3 12 Best practices 13 Project Finding the fastest way to get around NYC 14 Project Keeping family traditions alive with Airflow and generative AI Part 4 15 Operating Airflow in production 16 Securing Airflow 17 Airflow deployment options A Running code samples B Prometheus metric mapping <u>Specifications and Drawings of Patents Issued from the U.S. Patent Office</u> United States. Patent Office,1874 打造ChatGPT開發的六大主流框架：Prompt Flow、LangChain、Semantic Kernel等 陳會安Ko Ko（文心智能）Ian Chen（陳昭明）Ryan Chung,2024-04-26 ChatGPT OpenAI Plugins GPTs ChatGPT LLM 10 LLM LLM LangChain Semantic Kernel Python NET RAG 1 LangChain Semantic Kernel ChatGPT Prompt Prompt LangChain Semantic Kernel 2 RAG RAG LLM RAG 3 LLM AI AI LLM 4 a LangChain Semantic Kernel b RAG c Prompt d ChatGPT Azure OpenAI Will Google Developer Expert

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