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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

Ultimate ChatGPT Handbook for Enterprises Dr. Harald Gunia, Massimiliano Zattera, Karolina Galińska, 2023-11-20 Empowering the Global Workforce with ChatGPT Expertise KEY FEATURES Comprehensive Guide to GPT Evolution AI Capabilities and Prompt Engineering Design Patterns for Enterprise Personas Architectures and AI Assistants Management of the GPT Solution Development Cycle DESCRIPTION Ultimate ChatGPT Handbook for Enterprises is your indispensable resource for navigating the transformative world of ChatGPT within the enterprise domain It provides a deep dive into ChatGPT's evolution capabilities and its potential to democratize technology interactions through natural language Throughout its chapters you'll embark on a journey that spans from comprehending the lineage of GPT models to mastering advanced prompt engineering techniques It will help you take a step into a futuristic enterprise landscape where ChatGPT seamlessly collaborates with human intelligence fundamentally transforming daily work routines across various enterprise roles The latter chapters will help you attain proficiency in managing GPT projects discovering the agile and iterative approach to GPT solution life cycles using real world scenarios You will also be introduced to practical GPT implementation frameworks for both Python and Java This book offers practical insights and applicable skills fostering informed dialogue and active participation in the ongoing enterprise AI revolution If you want to stay at the

forefront of the rapidly evolving AI landscape and unlock enterprise excellence through ChatGPT this book is your go to companion

WHAT WILL YOU LEARN Discover strategies to maximize ChatGPT's capabilities fostering innovation and process optimization across global industry sectors Develop proficiency in crafting effective prompts using Prompt Engineering for seamless AI interactions enhancing ChatGPT's utility in enterprise contexts Acquire the expertise to design intelligent assistants that elevate enterprise operations promoting efficiency and innovation Gain practical skills to implement ChatGPT solutions using Python and Java enabling seamless integration with your enterprise systems Learn effective project management from initiation to validation and change management ensuring successful GPT solution implementation in enterprises Explore how ChatGPT can reshape various roles boosting productivity and fostering harmonious AI human collaboration in the workplace

WHO IS THIS BOOK FOR This book is designed for business professionals IT specialists and AI enthusiasts who are eager to delve into the transformative world of ChatGPT and its applications in the enterprise landscape A foundational understanding of AI concepts and familiarity with enterprise dynamics will be beneficial but not mandatory as the book is structured to guide readers from basic concepts to advanced implementations catering to both novices and experts alike

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APPENDIX A APPENDIX B A Simple Guide to Retrieval Augmented Generation

Abhinav Kimothi, 2025-07-15 Everything you need to know about Retrieval Augmented Generation in one human friendly guide Generative AI models struggle when you ask them about facts not covered in their training data Retrieval Augmented Generation or RAG enhances an LLM's available data by adding context from an external knowledge base so it can answer accurately about proprietary content recent information and even live conversations RAG is powerful and with A Simple Guide to Retrieval Augmented Generation it's also easy to understand and implement In A Simple Guide to Retrieval Augmented Generation you'll learn The components of a RAG system How to create a RAG knowledge base The indexing and generation pipeline Evaluating a RAG system Advanced RAG strategies RAG tools technologies and frameworks A Simple Guide to Retrieval Augmented Generation shows you how to enhance an LLM with relevant data increasing factual accuracy and reducing hallucination Your customer service chatbots can quote your company's policies your teaching tools can draw directly from your syllabus and your work assistants can access your organization's minutes notes and files Purchase of the print book includes a free eBook in PDF and ePub formats from Manning Publications About the book A Simple Guide to Retrieval Augmented Generation makes RAG simple and easy even if you've never worked with LLMs before This book goes deeper than any blog or YouTube tutorial covering fundamental RAG concepts that are essential for building

LLM based applications You ll be introduced to the idea of RAG and be guided from the basics on to advanced and modularized RAG approaches plus hands on code snippets leveraging LangChain OpenAI Transformers and other Python libraries Chapter by chapter you ll build a complete RAG enabled system and evaluate its effectiveness You ll compare and combine accuracy improving approaches for different components of RAG and see what the future holds for RAG You ll also get a sense of the different tools and technologies available to implement RAG By the time you re done reading you ll be ready to start building RAG enabled systems About the reader For data scientists machine learning and software engineers and technology managers who wish to build LLM based applications Examples in Python no experience with LLMs necessary About the author Abhinav Kimothi is an entrepreneur and Vice President of Artificial Intelligence at Yarnit He has spent over 15 years consulting and leadership roles in data science machine learning and AI

The Business of Metaverse David Palmer,2024-06-03 The metaverse is so much more than just a technology and immersive experience Join digital visionary and global platform innovation expert David Palmer on this exciting journey exploring the metaverse and its myriad commercial impact and career opportunities for business The Business of Metaverse outlines the building blocks for success in the metaverse and how organizations can effectively position themselves to transition and benefit from it It presents a unique framework showing how different components of the metaverse and the physical worlds can come together providing a basis for strategic positioning for different sectors and industries and equipping readers with valuable insights into how they can anticipate and navigate key opportunities and challenges Delving into this new world with embedded immersive capabilities it explores what metaverse business entities could look like the new business models in waiting and how businesses can gain competitive advantage through the power of interoperability Taking a panoramic approach to opportunity it examines the wide ranging transformative impacts that the metaverse can bring to the business landscape from equality and inclusive impact new work and career paths and digital identities to new digital and data currencies in the metaverse economy

Transformers for Natural Language Processing Denis Rothman,2022-03-25 OpenAI s GPT 3 ChatGPT GPT 4 and Hugging Face transformers for language tasks in one book Get a taste of the future of transformers including computer vision tasks and code writing and assistance Purchase of the print or Kindle book includes a free eBook in PDF format Key Features Improve your productivity with OpenAI s ChatGPT and GPT 4 from prompt engineering to creating and analyzing machine learning models Pretrain a BERT based model from scratch using Hugging Face Fine tune powerful transformer models including OpenAI s GPT 3 to learn the logic of your data Book DescriptionTransformers are well transforming the world of AI There are many platforms and models out there but which ones best suit your needs Transformers for Natural Language Processing 2nd Edition guides you through the world of transformers highlighting the strengths of different models and platforms while teaching you the problem solving skills you need to tackle model weaknesses You ll use Hugging Face to pretrain a RoBERTa model from scratch from building the dataset to defining the

data collator to training the model If you re looking to fine tune a pretrained model including GPT 3 then Transformers for Natural Language Processing 2nd Edition shows you how with step by step guides The book investigates machine translations speech to text text to speech question answering and many more NLP tasks It provides techniques to solve hard language problems and may even help with fake news anxiety read chapter 13 for more details You ll see how cutting edge platforms such as OpenAI have taken transformers beyond language into computer vision tasks and code creation using DALL E 2 ChatGPT and GPT 4 By the end of this book you ll know how transformers work and how to implement them and resolve issues like an AI detective What you will learn Discover new techniques to investigate complex language problems Compare and contrast the results of GPT 3 against T5 GPT 2 and BERT based transformers Carry out sentiment analysis text summarization casual speech analysis machine translations and more using TensorFlow PyTorch and GPT 3 Find out how ViT and CLIP label images including blurry ones and create images from a sentence using DALL E Learn the mechanics of advanced prompt engineering for ChatGPT and GPT 4 Who this book is for If you want to learn about and apply transformers to your natural language and image data this book is for you You ll need a good understanding of Python and deep learning and a basic understanding of NLP to benefit most from this book Many platforms covered in this book provide interactive user interfaces which allow readers with a general interest in NLP and AI to follow several chapters And don t worry if you get stuck or have questions this book gives you direct access to our AI ML community to help guide you on your transformers journey

Elon Musk Walter Isaacson,2023-09-12 The 1 New York Times and global bestseller from Walter Isaacson the acclaimed author of Steve Jobs Einstein His Life and World Benjamin Franklin and Leonardo da Vinci is the astonishingly intimate story of the most fascinating controversial innovator of modern times For two years Isaacson shadowed Elon Musk as he executed his vision for electric vehicles at Tesla space exploration with SpaceX the AI revolution and the takeover of Twitter and its conversion to X The result is the definitive portrait of the mercurial pioneer that offers clues to his political instincts future ambitions and overall worldview When Elon Musk was a kid in South Africa he was regularly beaten by bullies One day a group pushed him down some concrete steps and kicked him until his face was a swollen ball of flesh He was in the hospital for a week But the physical scars were minor compared to the emotional ones inflicted by his father an engineer rogue and charismatic fantasist His father s impact on his psyche would linger He developed into a tough yet vulnerable man child prone to abrupt Jekyll and Hyde mood swings with an exceedingly high tolerance for risk a craving for drama an epic sense of mission and a maniacal intensity that was callous and at times destructive At the beginning of 2022 after a year marked by SpaceX launching thirty one rockets into orbit Tesla selling a million cars and him becoming the richest man on earth Musk spoke ruefully about his compulsion to stir up dramas I need to shift my mindset away from being in crisis mode which it has been for about fourteen years now or arguably most of my life he said It was a wistful comment not a New Year s resolution Even as he said it he was secretly buying up shares of Twitter the world s ultimate playground

Over the years whenever he was in a dark place his mind went back to being bullied on the playground Now he had the chance to own the playground For two years Isaacson shadowed Musk attended his meetings walked his factories with him and spent hours interviewing him his family friends coworkers and adversaries The result is the revealing inside story filled with amazing tales of triumphs and turmoil that addresses the question are the demons that drive Musk also what it takes to drive innovation and progress

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

Generative AI in Action Amit Bahree,2024-11-26 Generative AI can transform your business by streamlining the process of creating text images and code This book will show you how to get in on the action Generative AI in Action is the comprehensive and concrete guide to generative AI you ve been searching for It introduces both AI s fundamental principles and its practical applications in an enterprise context from generating text and images for product catalogs and marketing campaigns to technical reporting and even writing software Inside author Amit Bahree shares his experience leading Generative AI projects at Microsoft for nearly a decade starting well before the current GPT revolution Inside Generative AI in Action you will find A practical overview of of generative AI applications Architectural patterns integration guidance and best practices for generative AI The latest techniques like RAG prompt engineering and multi modality The challenges and risks of generative AI like hallucinations and jailbreaks How to integrate generative AI into your business and IT strategy Generative AI in Action is full of real world use cases for generative AI showing you where and how to start integrating this powerful technology into your products and workflows You ll benefit from tried and tested implementation advice as well as application architectures to deploy GenAI in production at enterprise scale About the technology In controlled environments deep learning systems routinely surpass humans in reading comprehension image recognition and language understanding Large Language Models LLMs can deliver similar results in text and image generation and predictive reasoning Outside the lab though generative AI can both impress and fail spectacularly So how do you get the results you want Keep reading About the book Generative AI in Action presents concrete examples insights and techniques for using LLMs and other modern AI technologies successfully and safely In it you ll find practical approaches for incorporating AI into marketing software development business report generation data storytelling and other typically human tasks You ll explore the emerging patterns for GenAI apps master best practices for prompt engineering and learn how to

address hallucination high operating costs the rapid pace of change and other common problems What's inside Best practices for deploying Generative AI apps Production quality RAG Adapting GenAI models to your specific domain About the reader For enterprise architects developers and data scientists interested in upgrading their architectures with generative AI About the author Amit Bahree is Principal Group Product Manager for the Azure AI engineering team at Microsoft The technical editor on this book was Wee Hyong Tok Table of Contents Part 1 1 Introduction to generative AI 2 Introduction to large language models 3 Working through an API Generating text 4 From pixels to pictures Generating images 5 What else can AI generate Part 2 6 Guide to prompt engineering 7 Retrieval augmented generation The secret weapon 8 Chatting with your data 9 Tailoring models with model adaptation and fine tuning Part 3 10 Application architecture for generative AI apps 11 Scaling up Best practices for production deployment 12 Evaluations and benchmarks 13 Guide to ethical GenAI Principles practices and pitfalls A The book's GitHub repository B Responsible AI tools

Empire of AI Karen Hao, 2025-05-20 A NEW YORK TIMES BESTSELLER An eye opening account of the tech arms race shaping out planet from an award winning journalist and AI insider to the world of Sam Altman and OpenAI When longtime AI expert and journalist Karen Hao first began covering OpenAI in 2019 she thought they were the good guys Founded as a nonprofit with safety enshrined as its core mission it was meant its leader Sam Altman told us to act as a check against more purely market forces But the core truth of this massively disruptive sector is that it requires an unprecedented amount of proprietary resources the compute power of scarce high end chips the sheer volume of data that needs to be amassed at scale the humans on the ground cleaning it up for sweatshop wages throughout the Global South and a truly alarming spike in the need for energy and water underlying everything We have entered a new ominous age of empire with OpenAI setting a breakneck pace as a small group of the most valuable companies in human history try to chase it down In exhilarating prose and with unparalleled access to those closest to Sam Altman Hao recounts the meteoric rise of OpenAI and shows us the sinister impact that this industry is having on society

Modern Political Campaigns Michael D. Cohen, 2025-04-15 Dr Michael D Cohen a 30 year veteran of working on teaching and writing about political campaigns shows readers how campaigns are organized explains state of the art tools of the trade and reveals how some of the most interesting people in politics got their big breaks He combines academic insights and practical advice that will be of interest to practitioners and students considering careers in politics and people interested in how elections are won The second edition updated to include a new chapter on how campaigns are using artificial intelligence and what that means for democracy has been completely revised throughout to provide readers with an up to date understanding of how candidates succeed

Open AI and Computational Intelligence for Society 5.0 Pandey, Rajiv, Srivastava, Nidhi, Prasad, Rajesh, Prasad, Jayashree, Garcia, Manuel B., 2024-11-29 As technology rapidly advances the complexity of societal challenges grows necessitating intelligent solutions that can adapt and evolve However developing such solutions requires a deep understanding of computational intelligence CI and its application in addressing

real world problems Moreover ethical considerations surrounding AI such as bias and accountability are crucial to ensure responsible development and deployment of intelligent systems Open AI and Computational Intelligence for Society 5.0 offers a comprehensive exploration of CI providing insights into intelligent systems theory design and application This book is a practical guide for scientists engineers and researchers seeking to develop thoughtful solutions for complex societal issues Integrating disruptive technologies and frameworks illuminates the path toward creating intelligent machines collaborating with humans to enhance problem solving and improve quality of life

Protecting Information Assets and IT

Infrastructure in the Cloud Ravi Das, 2023-12-19 This book is a second edition The last one reviewed the evolution of the Cloud important Cloud concepts and terminology and the threats that are posed on a daily basis to it A deep dive into the components of Microsoft Azure were also provided as well as risk mitigation strategies and protecting data that resides in a Cloud environment In this second edition we extend this knowledge gained to discuss the concepts of Microsoft Azure We also examine how Microsoft is playing a huge role in artificial intelligence and machine learning with its relationship with OpenAI An overview into ChatGPT is also provided along with a very serious discussion of the social implications for artificial intelligence

Knowledge Graphs and LLMs in Action Alessandro Negro, Vlastimil Kus, Giuseppe Fitalia, Fabio Montagna, 2025-11-18 Combine knowledge graphs with large language models to deliver powerful reliable and explainable AI solutions Knowledge graphs model relationships between the objects events situations and concepts in your domain so you can readily identify important patterns in your own data and make better decisions Paired up with large language models they promise huge potential for working with structured and unstructured enterprise data building recommendation systems developing fraud detection mechanisms delivering customer service chatbots or more This book provides tools and techniques for efficiently organizing data modeling a knowledge graph and incorporating KGs into the functioning of LLMs and vice versa In Knowledge Graphs and LLMs in Action you will learn how to Model knowledge graphs with an iterative top down approach based in business needs Create a knowledge graph starting from ontologies taxonomies and structured data Build knowledge graphs from unstructured data sources using LLMs Use machine learning algorithms to complete your graphs and derive insights from it Reason on the knowledge graph and build KG powered RAG systems for LLMs In Knowledge Graphs and LLMs in Action you will discover the theory of knowledge graphs then put them into practice with LLMs to build working intelligence systems You will learn to create KGs from first principles go hands on to develop advisor applications for real world domains like healthcare and finance build retrieval augmented generation for LLMs and more About the technology Using knowledge graphs with LLMs reduces hallucinations enables explainable outputs and supports better reasoning By naturally encoding the relationships in your data knowledge graphs help create AI systems that are more reliable and accurate even for models that have limited domain knowledge About the book Knowledge Graphs and LLMs in Action shows you how to introduce knowledge graphs constructed from structured and unstructured sources into LLM

powered applications and RAG pipelines Real world case studies for domain specific applications from healthcare to financial crime detection illustrate how this powerful pairing works in practice You ll especially appreciate the expert insights on knowledge representation and reasoning strategies What s inside Design knowledge graphs for real world needs Build KGs from structured and unstructured data Apply machine learning to enrich complete and analyze graphs Pair knowledge graphs with RAG systems About the reader For ML and AI engineers data scientists and data engineers Examples in Python About the author Alessandro Negro is Chief Scientist at GraphAware and author of Graph Powered Machine Learning Vlastimil Kus Giuseppe Futia and Fabio Montagna are seasoned ML and AI professionals specializing in Knowledge Graphs Large Language Models and Graph Neural Networks Table of Contents Part 1 1 Knowledge graphs and LLMs A killer combination 2 Intelligent systems A hybrid approach Part 2 3 Create your first knowledge graph from ontologies 4 From simple networks to multisource integration Part 3 5 Extracting domain specific knowledge from unstructured data 6 Building knowledge graphs with large language models 7 Named entity disambiguation 8 NED with open LLMs and domain ontologies Part 4 9 Machine learning on knowledge graphs A primer approach 10 Graph feature engineering Manual and semiautomated approaches 11 Graph representation learning and graph neural networks 12 Node classification and link prediction with GNNs Part 5 13 Knowledge graph powered retrieval augmented generation 14 Asking a KG questions with natural language 15 Building a QA agent with LangGraph Get a free eBook PDF or ePub from Manning as well as access to the online liveBook format and its AI assistant that will answer your questions in any language when you purchase the print book

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

Generative AI Apps with LangChain and Python Rabi Jay,2024-12-26 Future proof your programming career through practical projects designed to grasp the intricacies of LangChain s components from core chains to advanced conversational agents This hands on book provides Python developers with the necessary skills to develop real world Large Language Model LLM based Generative AI applications quickly regardless of their experience level Projects throughout the book offer practical LLM solutions for common business issues such as information overload internal knowledge access and enhanced customer communication Meanwhile you ll learn how to optimize workflows enhance embedding efficiency select between vector stores and other optimizations relevant to experienced AI users The emphasis on real world applications and practical examples will enable you to customize your own projects to address pain points across various industries Developing LangChain based Generative AI LLM Apps with Python employs a focused toolkit LangChain Pinecone and Streamlit LLM integration to practically showcase how Python developers can leverage existing skills to build Generative AI solutions By addressing tangible challenges you ll learn by be doing enhancing your career possibilities in today s rapidly evolving landscape What You Will Learn Understand different types of LLMs and how to select the right ones for responsible AI Structure effective prompts Master LangChain concepts such as chains models memory and agents Apply embeddings effectively for search content comparison and understanding similarity Setup and integrate Pinecone vector database for indexing structuring data and search Build Q those seeking a structured guide to enhance their careers by learning to create robust real world LLM powered Generative AI applications data scientists analysts and experienced developers new to LLMs

The Generativity Advantage Mohammad Keyhani,2025-08-04 How can businesses systematically profit from innovations they never predicted created by people they ve never met solving problems they didn t even know existed While many businesses celebrate user innovation few take their user innovators seriously enough as entrepreneurs The Generativity Advantage brings powerful ideas from technology generativity theory into the domains of business strategy and entrepreneurship It explores ways to specifically design products to spur user innovation product generativity and to build

dynamic markets for those innovations market generativity in order to achieve a strategic generativity advantage the ability to systematically profit from the unpredicted innovations of others on a massive scale Through numerous case studies from Apple and Google to emerging leaders in generative AI and no code technology like OpenAI Anthropic Bubble Notion Coda and Webflow it shows how product generativity and market generativity can together create a powerful flywheel effect and sustained competitive advantage Yet the book also demonstrates that achieving a generativity advantage is neither easy nor trivial the world s leading companies struggle to implement these ideas effectively The book s key lesson is to help your user innovators succeed as serious entrepreneurs and you will benefit generously in turn Whether you re building a digital platform a marketplace or any product that allows users to innovate this book provides the conceptual tools and practical strategies needed to transform your platform into an engine of continuous innovation Learn how to move beyond celebrating user creativity to systematically enabling and profiting from user entrepreneurship creating value at scales previously unimaginable

[Azure AI Fundamentals \(AI-900\) Study Guide](#) Tom Taulli,2025-05-06 Businesses that want to stay competitive know that AI has become a crucial technology and so do their employees looking to grow their careers Earning Microsoft s AI 900 Azure AI Fundamentals certification proves your proficiency with foundational AI concepts This study guide equips you with the knowledge needed to pass the AI 900 exam whether you re an IT professional a data analyst or a student looking to break into the AI field Packed with clear explanations real world examples exam tips and practice questions this comprehensive handbook is your go to resource for mastering the Azure AI platform and advancing your career You ll explore key exam topics including machine learning computer vision and generative AI while gaining practical insights into leveraging Azure s powerful AI tools

Sam Altman MANAS PAL,2025-10-29 Sam Altman Architect of the AI Age is the definitive biography of one of the most influential figures in modern technology the man behind OpenAI and ChatGPT From his early days as a curious Midwestern child teaching himself to code to his rise as a Silicon Valley founder with Loopt and later as president of Y Combinator guiding hundreds of startups Altman s journey reflects the restless drive of innovation in its purest form But his most consequential chapter began with the founding of OpenAI a bold mission to ensure that artificial intelligence would serve humanity not threaten it This book traces the story of how OpenAI went from a non profit research lab to the creator of ChatGPT a tool that shocked the world by showing just how close we may be to artificial general intelligence Along the way it explores the controversial decision to adopt a capped profit structure the multibillion dollar partnership with Microsoft and the debates over safety ethics and regulation that Altman has been forced to navigate on the global stage Across more than 30 000 words of research and storytelling you ll discover Altman s childhood education and first ventures in tech Lessons from Loopt and his years shaping the next generation of startups at Y Combinator The founding vision values and controversies of OpenAI How GPT models evolved from obscure research projects into cultural phenomena The release of ChatGPT and the shockwaves it sent through business education and society Altman s views on

AGI existential risk and the urgent need for regulation Criticisms and controversies that have tested his leadership The open ended possibilities of a future shaped by artificial intelligence from utopia to dystopia This is not only a biography of Sam Altman but a chronicle of our time the birth of an intelligence beyond human design and the extraordinary risks and opportunities it presents For anyone curious about where technology is heading and the people steering it this book offers both a portrait of a visionary and a reflection on the choices that will define the century The future of AI is being written now This is the story of the man holding the pen

Law and Economics of Justice Klaus Mathis,Avishalom Tor,2024-04-30

While previous volumes have examined specific issues and developments such as the coronavirus crisis or digital transformation from a law and economics perspective the anniversary edition returns to the methodological and philosophical fundament of the discipline of law and economics The present book aims to examine these foundations in general and in particular efficiency reciprocity and meritocracy and their relation to law and justice from an interdisciplinary perspective Efficiency Traditionally the economic analysis of law has been guided by the goal of efficiency Economists usually define efficiency as Pareto or Kaldor Hicks efficiency Any change that makes one member of society better off without anyone else being worse off is a Pareto improvement A change is a Kaldor Hicks improvement if the gainers value their gains more than the losers value their losses with only hypothetical compensation required Reciprocity Economists have traditionally based their models on the self interest hypothesis of homo oeconomicus In this model an individual maximises his own utility without being altruistic or jealous Behavioural economics challenges the self interest hypothesis In fact many people deviate from purely self interested behaviour There are also signs that considerations of fairness and mutual benefit are important in bilateral negotiations and in the functioning of markets Meritocracy The concept of meritocracy refers to a system organisation or society in which people are selected and promoted to positions of success power and influence on the basis of their abilities and merits This means that an individual is able to climb the social ladder through hard work Moreover meritocracy directs the most talented people into the most functionally important positions thereby increasing a society s efficiency However the equalising function of meritocracy has been criticised Rather than reducing inequality meritocracy is seen as the cause of racial economic and social inequality

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