chip huyen book tour

chip huyen book tour has become an anticipated event for technology enthusiasts, readers, and aspiring entrepreneurs alike. This tour highlights the work and insights of Chip Huyen, a prominent figure in machine learning and software engineering education. The tour typically includes book signings, keynote presentations, and workshops centered around Huyen's influential publications and expertise. Attendees gain a unique opportunity to deepen their understanding of machine learning concepts and practical applications directly from the author. This article explores the details of the chip huyen book tour, its significance for the tech community, and how participants can benefit from attending. Additionally, it covers the schedule, locations, and key topics discussed during the tour events.

Overview of Chip Huyen and Her Work

Chip Huyen is a renowned expert in machine learning and software engineering, known for her comprehensive books and educational resources. Her work primarily focuses on practical machine

learning systems, bridging the gap between theoretical concepts and real-world applications. Huyen has contributed significantly to making complex AI topics accessible to a broad audience, including engineers, academics, and students. Her books emphasize best practices in designing, building, and deploying machine learning systems, which has earned her a respected position in the tech community.

Background and Career Highlights

Chip Huyen holds advanced degrees in computer science and has worked at leading technology companies, developing scalable machine learning infrastructure. She is also an educator, delivering courses and workshops that train professionals in cutting-edge AI techniques. Her career combines academic rigor with industry experience, making her insights particularly valuable for practitioners.

Notable Publications

Huyen’s publications include widely acclaimed books such as "Designing Machine Learning Systems" and other influential texts. These works serve as essential references for engineers and data scientists aiming to implement effective machine learning pipelines. The clarity and depth of her writing have made these books staples for many in the AI field.

Details of the Chip Huyen Book Tour

The chip huyen book tour is an organized series of events designed to promote her latest publications and engage directly with the audience. The tour typically spans multiple cities, targeting key tech hubs and academic centers. Each event is structured to provide an immersive experience through talks, Q&A sessions, and book signings.

Tour Schedule and Locations

The tour schedule is publicly announced well in advance, allowing attendees to plan their participation. Locations often include major cities known for technology innovation, such as San Francisco, New York, Seattle, and Boston. Universities and tech conference venues are common hosts, providing a professional setting conducive to learning and networking.

Event Format and Activities

Each stop on the chip huyen book tour includes multiple components:

- Keynote presentations focusing on machine learning system design
- Interactive workshops covering practical implementation techniques
- Book signings offering personalized copies of Chip Huyen’s work
- Networking opportunities with like-minded professionals and experts

Key Themes and Topics Covered

The chip huyen book tour emphasizes critical themes relevant to modern machine learning development. These topics reflect the content of her books and the latest industry trends, providing valuable insights for attendees.

Machine Learning System Design

A core focus of the tour is on designing robust and scalable machine learning systems. This includes architectural considerations, data pipeline management, and integration with existing software infrastructure. Huyen presents best practices that help engineers avoid common pitfalls and optimize system performance.

Operationalizing Machine Learning Models

Another significant topic is operationalizing machine learning models, which involves deploying models into production environments and maintaining them effectively. Discussions cover monitoring, updating, and troubleshooting models to ensure reliability and efficiency over time.

Emerging Trends in AI and Machine Learning

Chip Huyen also explores emerging trends such as automated machine learning (AutoML), ethical AI practices, and the impact of new hardware technologies on ML workflows. These insights prepare attendees to stay ahead in a rapidly evolving field.

Benefits of Attending the Book Tour

Participating in the chip huyen book tour offers numerous advantages for professionals and students interested in machine learning and AI. The event provides unique access to expert knowledge and networking possibilities.

Access to Expert Knowledge

Attendees gain direct exposure to Chip Huyen’s expertise through presentations and workshops. This access allows participants to deepen their understanding of complex concepts and ask specific questions related to their work or studies.

Networking Opportunities

The tour creates a community environment where attendees can connect with peers, industry leaders, and academics. These connections often lead to collaborations, job opportunities, and shared learning experiences.

Exclusive Resources and Materials

Participants often receive exclusive materials, including signed copies of books, supplementary learning aids, and invitations to follow-up sessions or online forums. These resources enhance the value of attending the tour events.

How to Participate in the Chip Huyen Book Tour

Joining the chip huyen book tour requires timely planning and registration. Information about the tour is typically available through official announcements and social media channels dedicated to the events.

Registration Process

Interested individuals should monitor official channels for tour dates and registration openings. Early registration is recommended due to limited seating and high demand. Some events may require a fee, while others could be free or sponsored by partner organizations.

Preparing for the Event

Preparation involves reviewing Chip Huyen's books or related materials to maximize learning during the sessions. Bringing questions or project challenges can facilitate more productive interactions during Q&A periods.

Post-Tour Engagement

After attending, participants can stay engaged through online communities or follow-up workshops offered by Chip Huyen or associated organizations. Continued learning and networking help maintain momentum gained from the tour.

Frequently Asked Questions

Who is Chip Huyen and what is her book about?

Chip Huyen is a software engineer, author, and educator known for her expertise in machine learning and production ML systems. Her book focuses on best practices and real-world examples for building and deploying machine learning systems.

What is the Chip Huyen book tour?

The Chip Huyen book tour is a series of events where Chip Huyen visits various cities to promote her book, give talks, conduct workshops, and engage with the machine learning and tech community.

Which cities are included in the Chip Huyen book tour?

The specific cities on Chip Huyen's book tour vary by year, but typically include major tech hubs such as San Francisco, New York, Seattle, London, and other global locations relevant to the tech and ML community.

How can I attend a Chip Huyen book tour event?

You can attend a Chip Huyen book tour event by registering through her official website or event platforms where announcements and registration links are posted. Following her social media channels also helps stay updated.

Will Chip Huyen's book tour include workshops or just talks?

Chip Huyen's book tour often includes a mix of talks, Q&A sessions, and hands-on workshops to provide attendees with both theoretical knowledge and practical skills related to machine learning systems.

Is Chip Huyen's book tour suitable for beginners in machine learning?

Yes, Chip Huyen's book tour events are designed to accommodate a range of skill levels, including beginners, by explaining concepts clearly and providing practical insights into machine learning engineering.

Are the Chip Huyen book tour events recorded or available online?

Some of the Chip Huyen book tour events may be recorded and made available online through her website, YouTube channel, or other platforms, allowing those who cannot attend in person to benefit from the content.

How does Chip Huyen's book tour benefit machine learning practitioners?

Chip Huyen's book tour provides machine learning practitioners with valuable knowledge on deploying ML systems in production, networking opportunities with peers, and direct access to an expert for questions and guidance.

Additional Resources

1. *Designing Machine Learning Systems with Chip Huyen*
This book explores the practical aspects of building scalable machine learning systems, drawing on insights from Chip Huyen’s expertise. It covers system design principles, architecture considerations, and deployment strategies for ML models. Readers will learn how to bridge the gap between ML research and production environments effectively.

2. *Deep Learning for Engineers: Lessons from Chip Huyen*
Focused on engineers and practitioners, this book breaks down complex deep learning concepts into actionable techniques. It includes real-world case studies, coding examples, and tips from Chip Huyen’s extensive experience in teaching and industry. The book is ideal for those looking to implement deep learning solutions in their projects.

3. *ML Infrastructure and Operations: A Chip Huyen Guide*
This guide delves into the operational challenges of machine learning systems, such as monitoring, versioning, and scaling. Chip Huyen shares best practices for maintaining robust ML infrastructure in production. The book is essential for ML engineers and DevOps professionals working with AI applications.

4. *From Research to Production: Chip Huyen’s Approach to ML Deployment*
This book focuses on the journey of transitioning machine learning models from experimental stages to live production environments. It highlights common pitfalls and strategies to ensure smooth deployment

and ongoing maintenance. Chip Huyen's methodologies help teams streamline their ML workflows.

5. *Building AI Products: Strategies Inspired by Chip Huyen*
A practical handbook for product managers and developers interested in integrating AI into their products. The book covers product lifecycle management, user-centric design, and ethical considerations, all inspired by Chip Huyen’s teachings. It emphasizes aligning AI capabilities with business goals.

6. *Practical TensorFlow: Insights from Chip Huyen’s Workshops*
This book serves as a hands-on guide to TensorFlow, focusing on building efficient and scalable machine learning models. It incorporates lessons from Chip Huyen’s popular workshops, including code snippets and optimization techniques. Beginners and intermediate users will find it particularly useful.

7. *Machine Learning Engineering: The Chip Huyen Framework*
An in-depth look at the discipline of machine learning engineering, combining software engineering principles with ML expertise. Chip Huyen outlines a framework for building reliable, maintainable, and scalable ML systems. The book is a valuable resource for engineers aiming to excel in ML projects.

8. *Ethics in AI Development: Perspectives from Chip Huyen*
This book discusses the ethical challenges faced by AI developers and the importance of responsible AI practices. Chip Huyen provides thoughtful analysis and guidelines to navigate bias, fairness, and transparency in AI systems. It encourages practitioners to build AI that benefits society.

9. *Scaling Machine Learning Teams: Leadership Lessons from Chip Huyen*
Focusing on the human aspect of AI projects, this book offers advice on building and managing effective machine learning teams. Drawing from Chip Huyen’s experiences leading workshops and working with industry leaders, it covers team dynamics, collaboration, and career growth. It is ideal for managers and team leads in AI organizations.

Chip Huyen Book Tour

chip huyen book tour: AI Engineering Chip Huyen, 2024-12-04 Recent breakthroughs in AI have not only increased demand for AI products, they've also lowered the barriers to entry for those who want to build AI products. The model-as-a-service approach has transformed AI from an esoteric discipline into a powerful development tool that anyone can use. Everyone, including those with minimal or no prior AI experience, can now leverage AI models to build applications. In this book, author Chip Huyen discusses AI engineering: the process of building applications with readily available foundation models. The book starts with an overview of AI engineering, explaining how it differs from traditional ML engineering and discussing the new AI stack. The more AI is used, the more opportunities there are for catastrophic failures, and therefore, the more important evaluation becomes. This book discusses different approaches to evaluating open-ended models, including the rapidly growing AI-as-a-judge approach. AI application developers will discover how to navigate the AI landscape, including models, datasets, evaluation benchmarks, and the seemingly infinite number of use cases and application patterns. You'll learn a framework for developing an AI application, starting with simple techniques and progressing toward more sophisticated methods, and discover how to efficiently deploy these applications. Understand what AI engineering is and how it differs from traditional machine learning engineering Learn the process for developing an AI application, the challenges at each step, and approaches to address them Explore various model adaptation techniques, including prompt engineering, RAG, fine-tuning, agents, and dataset engineering, and understand how and why they work Examine the bottlenecks for latency and cost when serving foundation models and learn how to overcome them Choose the right model, dataset, evaluation benchmarks, and metrics for your needs Chip Huyen works to accelerate data analytics on GPUs at Voltron Data. Previously, she was with Snorkel AI and NVIDIA, founded an AI infrastructure startup, and taught Machine Learning Systems Design at Stanford. She's the author of the book Designing Machine Learning Systems, an Amazon bestseller in AI. AI Engineering builds upon and is complementary to Designing Machine Learning Systems (O'Reilly).

chip huyen book tour: *Machine Learning Interviews* Susan Shu Chang, 2023-11-29 As tech products become more prevalent today, the demand for machine learning professionals continues to grow. But the responsibilities and skill sets required of ML professionals still vary drastically from company to company, making the interview process difficult to predict. In this guide, data science leader Susan Shu Chang shows you how to tackle the ML hiring process. Having served as principal data scientist in several companies, Chang has considerable experience as both ML interviewer and interviewee. She'll take you through the highly selective recruitment process by sharing hard-won lessons she learned along the way. You'll quickly understand how to successfully navigate your way through typical ML interviews. This guide shows you how to: Explore various machine learning roles, including ML engineer, applied scientist, data scientist, and other positions Assess your interests and skills before deciding which ML role(s) to pursue Evaluate your current skills and close any gaps that may prevent you from succeeding in the interview process Acquire the skill set necessary for each machine learning role Ace ML interview topics, including coding assessments, statistics and machine learning theory, and behavioral questions Prepare for interviews in statistics and machine learning theory by studying common interview questions

chip huyen book tour: AI Computing Systems Yunji Chen, Ling Li, Wei Li, Qi Guo, Zidong Du, Zichen Xu, 2022-10-12 AI Computing Systems: An Application Driven Perspective adopts the

principle of application-driven, full-stack penetration and uses the specific intelligent application of image style migration to provide students with a sound starting place to learn. This approach enables readers to obtain a full view of the AI computing system. A complete intelligent computing system involves many aspects such as processing chip, system structure, programming environment, software, etc., making it a difficult topic to master in a short time. - Provides an in-depth analysis of the underlying principles behind the use of knowledge in intelligent computing systems - Centers around application-driven and full-stack penetration, focusing on the knowledge required to complete this application at all levels of the software and hardware technology stack - Supporting experimental tutorials covering key knowledge points in each chapter provide practical guidance and formalization tools for developing a simple AI computing system

chip huyen book tour: 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

chip huyen book tour: *Hands-On APIs for AI and Data Science* Ryan Day, 2025-03-04 To succeed in AI and data science, you must first master APIs. API skills are essential for AI and data science success. With this practical book, data scientists and software developers will gain hands-on experience developing and using APIs with the Python programming language and popular frameworks like FastAPI and StreamLit. Part 1 takes you step-by-step through coding projects to build APIs using Python and FastAPI and deploy them in the cloud. Part 2 teaches you to consume APIs in a data science project using industry-standard tools. And in Part 3, you'll use ChatGPT, the LangChain framework, and other tools to access your APIs with generative AI and large language models (LLMs). As you complete the chapters in the book, you'll be creating a professional online portfolio demonstrating your new skill with APIs, AI, and data science. You'll learn how to: Design APIs that data scientists and AIs love Develop APIs using Python and FastAPI Deploy APIs using multiple cloud providers Create data science projects such as visualizations and models using APIs as a data source Access APIs using generative AI and LLMs Author Ryan Day is a data scientist in the financial services industry and an open source developer.

chip huyen book tour: Machine Learning Engineering with MLflow Natu Lauchande, 2021-08-27 Get up and running, and productive in no time with MLflow using the most effective machine learning engineering approach Key FeaturesExplore machine learning workflows for stating ML problems in a concise and clear manner using MLflowUse MLflow to iteratively develop a ML model and manage it Discover and work with the features available in MLflow to seamlessly take a model from the development phase to a production environmentBook Description MLflow is a platform for the machine learning life cycle that enables structured development and iteration of machine learning models and a seamless transition into scalable production environments. This book will take you through the different features of MLflow and how you can implement them in your ML project. You will begin by framing an ML problem and then transform your solution with MLflow, adding a workbench environment, training infrastructure, data management, model management,

experimentation, and state-of-the-art ML deployment techniques on the cloud and premises. The book also explores techniques to scale up your workflow as well as performance monitoring techniques. As you progress, you'll discover how to create an operational dashboard to manage machine learning systems. Later, you will learn how you can use MLflow in the AutoML, anomaly detection, and deep learning context with the help of use cases. In addition to this, you will understand how to use machine learning platforms for local development as well as for cloud and managed environments. This book will also show you how to use MLflow in non-Python-based languages such as R and Java, along with covering approaches to extend MLflow with Plugins. By the end of this machine learning book, you will be able to produce and deploy reliable machine learning algorithms using MLflow in multiple environments. What you will learnDevelop your machine learning project locally with MLflow's different featuresSet up a centralized MLflow tracking server to manage multiple MLflow experimentsCreate a model life cycle with MLflow by creating custom modelsUse feature streams to log model results with MLflowDevelop the complete training pipeline infrastructure using MLflow featuresSet up an inference-based API pipeline and batch pipeline in MLflowScale large volumes of data by integrating MLflow with high-performance big data librariesWho this book is for This book is for data scientists, machine learning engineers, and data engineers who want to gain hands-on machine learning engineering experience and learn how they can manage an end-to-end machine learning life cycle with the help of MLflow. Intermediate-level knowledge of the Python programming language is expected.

chip huyen book tour: Hands-On Generative AI with Transformers and Diffusion Models Omar Sanseviero, Pedro Cuenca, Apolinário Passos, Jonathan Whitaker, 2024-11-22 Learn to use generative AI techniques to create novel text, images, audio, and even music with this practical, hands-on book. Readers will understand how state-of-the-art generative models work, how to fine-tune and adapt them to their needs, and how to combine existing building blocks to create new models and creative applications in different domains. This go-to book introduces theoretical concepts followed by guided practical applications, with extensive code samples and easy-to-understand illustrations. You'll learn how to use open source libraries to utilize transformers and diffusion models, conduct code exploration, and study several existing projects to help guide your work. Build and customize models that can generate text and images Explore trade-offs between using a pretrained model and fine-tuning your own model Create and utilize models that can generate, edit, and modify images in any style Customize transformers and diffusion models for multiple creative purposes Train models that can reflect your own unique style

chip huyen book tour: Artificial Intelligence with Microsoft Power BI Jen Stirrup, Thomas J. Weinandy, 2024-03-28 Advance your Power BI skills by adding AI to your repertoire at a practice level. With this practical book, business-oriented software engineers and developers will learn the terminologies, practices, and strategy necessary to successfully incorporate AI into your business intelligence estate. Jen Stirrup, CEO of AI and BI leadership consultancy Data Relish, and Thomas Weinandy, research economist at Upside, show you how to use data already available to your organization. Springboarding from the skills that you already possess, this book adds AI to your organization's technical capability and expertise with Microsoft Power BI. By using your conceptual knowledge of BI, you'll learn how to choose the right model for your AI work and identify its value and validity. Use Power BI to build a good data model for AI Demystify the AI terminology that you need to know Identify AI project roles, responsibilities, and teams for AI Use AI models, including supervised machine learning techniques Develop and train models in Azure ML for consumption in Power BI Improve your business AI maturity level with Power BI Use the AI feedback loop to help you get started with the next project

chip huyen book tour: Deep Learning at Scale Suneeta Mall, 2024-06-18 Bringing a deep-learning project into production at scale is quite challenging. To successfully scale your project, a foundational understanding of full stack deep learning, including the knowledge that lies at the intersection of hardware, software, data, and algorithms, is required. This book illustrates complex concepts of full stack deep learning and reinforces them through hands-on exercises to arm

you with tools and techniques to scale your project. A scaling effort is only beneficial when it's effective and efficient. To that end, this guide explains the intricate concepts and techniques that will help you scale effectively and efficiently. You'll gain a thorough understanding of: How data flows through the deep-learning network and the role the computation graphs play in building your model How accelerated computing speeds up your training and how best you can utilize the resources at your disposal How to train your model using distributed training paradigms, i.e., data, model, and pipeline parallelism How to leverage PyTorch ecosystems in conjunction with NVIDIA libraries and Triton to scale your model training Debugging, monitoring, and investigating the undesirable bottlenecks that slow down your model training How to expedite the training lifecycle and streamline your feedback loop to iterate model development A set of data tricks and techniques and how to apply them to scale your training model How to select the right tools and techniques for your deep-learning project Options for managing the compute infrastructure when running at scale

chip huyen book tour: *AI at the Edge* Daniel Situnayake, Jenny Plunkett, 2023-01-10 Edge AI is transforming the way computers interact with the real world, allowing IoT devices to make decisions using the 99% of sensor data that was previously discarded due to cost, bandwidth, or power limitations. With techniques like embedded machine learning, developers can capture human intuition and deploy it to any target--from ultra-low power microcontrollers to embedded Linux devices. This practical guide gives engineering professionals, including product managers and technology leaders, an end-to-end framework for solving real-world industrial, commercial, and scientific problems with edge AI. You'll explore every stage of the process, from data collection to model optimization to tuning and testing, as you learn how to design and support edge AI and embedded ML products. Edge AI is destined to become a standard tool for systems engineers. This high-level road map helps you get started. Develop your expertise in AI and ML for edge devices Understand which projects are best solved with edge AI Explore key design patterns for edge AI apps Learn an iterative workflow for developing AI systems Build a team with the skills to solve real-world problems Follow a responsible AI process to create effective products

chip huyen book tour: Introducing Python Bill Lubanovic, 2025-09-10 Stuck in a coding conundrum? Whether you're an advanced beginner, an intermediate developer, or a curious newcomer, the complexities of coding can often feel like a labyrinth with no exit. With Python, however, you can start writing real code quickly—but where should you start? In this updated third edition, Bill Lubanovic acts as your personal guide to Python, offering a clear path through the intricacies and capabilities of this much-beloved coding language, including new chapters on AI models and performance enhancements. Easy to understand and enjoyable to read, this book not only teaches you the core concepts but also dives into practical applications that bridge the gap between learning and doing. By reading it, you will: Understand everything from basic data structures to advanced features Gain insights into using Python for files, networking, databases, and data science Learn testing, debugging, code reuse, and other essential development tips Explore how Python can be utilized in business, science, and the arts

chip huyen book tour: Effective Machine Learning Teams David Tan, Ada Leung, David Colls, 2024-02-29 Gain the valuable skills and techniques you need to accelerate the delivery of machine learning solutions. With this practical guide, data scientists, ML engineers, and their leaders will learn how to bridge the gap between data science and Lean product delivery in a practical and simple way. David Tan, Ada Leung, and Dave Colls show you how to apply time-tested software engineering skills and Lean product delivery practices to reduce toil and waste, shorten feedback loops, and improve your team's flow when building ML systems and products. Based on the authors' experience across multiple real-world data and ML projects, the proven techniques in this book will help your team avoid common traps in the ML world, so you can iterate and scale more quickly and reliably. You'll learn how to overcome friction and experience flow when delivering ML solutions. You'll also learn how to: Write automated tests for ML systems, containerize development environments, and refactor problematic codebases Apply MLOps and CI/CD practices to accelerate experimentation cycles and improve reliability of ML solutions Apply Lean delivery and product

practices to improve your odds of building the right product for your users Identify suitable team structures and intra- and inter-team collaboration techniques to enable fast flow, reduce cognitive load, and scale ML within your organization

chip huyen book tour: Machine Learning in Elixir Sean Moriarity, 2024-08-27 Stable Diffusion, ChatGPT, Whisper - these are just a few examples of incredible applications powered by developments in machine learning. Despite the ubiquity of machine learning applications running in production, there are only a few viable language choices for data science and machine learning tasks. Elixir's Nx project seeks to change that. With Nx, you can leverage the power of machine learning in your applications, using the battle-tested Erlang VM in a pragmatic language like Elixir. In this book, you'll learn how to leverage Elixir and the Nx ecosystem to solve real-world problems in computer vision, natural language processing, and more. The Elixir Nx project aims to make machine learning possible without the need to leave Elixir for solutions in other languages. And even if concepts like linear models and logistic regression are new to you, you'll be using them and much more to solve real-world problems in no time. Start with the basics of the Nx programming paradigm - how it differs from the Elixir programming style you're used to and how it enables you to write machine learning algorithms. Use your understanding of this paradigm to implement foundational machine learning algorithms from scratch. Go deeper and discover the power of deep learning with Axon. Unlock the power of Elixir and learn how to build and deploy machine learning models and pipelines anywhere. Learn how to analyze, visualize, and explain your data and models. Discover how to use machine learning to solve diverse problems from image recognition to content recommendation - all in your favorite programming language. What You Need: You'll need a computer with a working installation of Elixir v1.12 and Erlang/OTP 24. For some of the more compute intensive examples, you'll want to use EXLA, which currently only supports x86-64 platforms. While not explicitly required, some examples will demonstrate programs running on accelerators such as CUDA/ROCm enabled GPUs and Google TPUs. Most of these programs will still run fine on a regular CPU, just for much longer periods of time.

chip huyen book tour: A.I. in 2020 Jair Ribeiro, 2021-01-05 This book collects the best articles about several artificial intelligence concepts that I have published online during 2020. It is dedicated to anyone interested in Artificial Intelligence and anyone who wants to understand some of the building blocks that form this fascinating technology. Here, you will find my best articles, updated and revisited, with some more insights, with a suitable format for book readers. The content of this book results from extensive research, long nights of studies, and some of my best years of work in the field in some prestigious enterprise companies in Europe. My goal is to share as much as possible through an affordable, simple, and straightforward language, valuable knowledge that helps you understanding complex topics related to technologies such as Machine Learning, Deep Learning, Analytics, and Autonomous Vehicles, among others. It is a satisfying adventure, I must say. Every day I receive considerably positive feedback, lots of article views, lots of likes, retweets, and more on my social networks and not less, some indications as a top writer, invitations to collaborate in some prestigious online publications. All this is truly motivating. I believe that life is complicated enough, so I consider that every time someone tries to simplify concepts and knowledge useful to humanity, this can be regarded as an essential contribution to inclusiveness and equity in the world. So, this is my mission. This book is not intended to exhaust all the learning needs of those wishing to enter the AI world. It is a starting point composed of some “scattered notes” that will help you put together some valuable pieces of technology's great mosaic. The articles presented here are very beneficial to provide you a practical introduction to some of the most important concepts that many of us face daily. They also will give you some pointers on how to go beyond the first step in search of much more. Just as Dante suggested: “You were not meant to live as ugly, but to seek virtue and knowledge.”

chip huyen book tour: *Low-Code AI* Gwendolyn Stripling, Michael Abel, 2023-09-13 Take a data-first and use-case–driven approach with Low-Code AI to understand machine learning and deep learning concepts. This hands-on guide presents three problem-focused ways to learn no-code ML

using AutoML, low-code using BigQuery ML, and custom code using scikit-learn and Keras. In each case, you'll learn key ML concepts by using real-world datasets with realistic problems. Business and data analysts get a project-based introduction to ML/AI using a detailed, data-driven approach: loading and analyzing data; feeding data into an ML model; building, training, and testing; and deploying the model into production. Authors Michael Abel and Gwendolyn Stripling show you how to build machine learning models for retail, healthcare, financial services, energy, and telecommunications. You'll learn how to: Distinguish between structured and unstructured data and the challenges they present Visualize and analyze data Preprocess data for input into a machine learning model Differentiate between the regression and classification supervised learning models Compare different ML model types and architectures, from no code to low code to custom training Design, implement, and tune ML models Export data to a GitHub repository for data management and governance

chip huyen book tour: Empire of AI Karen Hao, 2025-05-20 An Instant New York Times Bestseller “Excellent and deeply reported.” —Tim Wu, The New York Times “Startling and intensely researched . . . an essential account of how OpenAI and ChatGPT came to be and the catastrophic places they will likely take us.” —Vulture “Hao’s reporting inside OpenAI is exceptional, and she’s persuasive in her argument that the public should focus less on A.I.’s putative ‘sentience’ and more on its implications for labor and the environment.” —Benjamin Wallace-Wells, New Yorker From a brilliant longtime AI insider with intimate access to the world of Sam Altman's OpenAI from the beginning, an eye-opening account of arguably the most fateful tech arms race in history, reshaping the planet in real time, from the cockpit of the company that is driving the frenzy When AI expert and investigative 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, the organization was meant, its leader Sam Altman told us, to act as a check against more purely mercantile, and potentially dangerous, forces. What could go wrong? Over time, Hao began to wrestle ever more deeply with that question. Increasingly, she realized that the core truth of this massively disruptive sector is that its vision of success requires an almost unprecedented amount of resources: the “compute” power of high-end chips and the processing capacity to create massive large language models, the sheer volume of data that needs to be amassed at scale, the humans “cleaning up” that data for sweatshop wages throughout the Global South, and a truly alarming spike in the usage of energy and water underlying it all. The truth is that we have entered a new and ominous age of empire: only a small handful of globally scaled companies can even enter the field of play. At the head of the pack with its ChatGPT breakthrough, how would OpenAI resist such temptations? Spoiler alert: it didn’t. Armed with Microsoft’s billions, OpenAI is setting a breakneck pace, chased by a small group of the most valuable companies in human history—toward what end, not even they can define. All this time, Hao has maintained her deep sourcing within the company and the industry, and so she was in intimate contact with the story that shocked the entire tech industry—Altman’s sudden firing and triumphant return. The behind-the-scenes story of what happened, told here in full for the first time, is revelatory of who the people controlling this technology really are. But this isn’t just the story of a single company, however fascinating it is. The g forces pressing down on the people of OpenAI are deforming the judgment of everyone else too—as such forces do. Naked power finds the ideology to cloak itself; no one thinks they’re the bad guy. But in the meantime, as Hao shows through intrepid reporting on the ground around the world, the enormous wheels of extraction grind on. By drawing on the viewpoints of Silicon Valley engineers, Kenyan data laborers, and Chilean water activists, Hao presents the fullest picture of AI and its impact we’ve seen to date, alongside a trenchant analysis of where things are headed. An astonishing eyewitness view from both up in the command capsule of the new economy and down where the real suffering happens, Empire of AI pierces the veil of the industry defining our era.

chip huyen book tour: *Building LLMs for Production* Louis-François Bouchard, Louie Peters , 2024-05-21 “This is the most comprehensive textbook to date on building LLM applications - all essential topics in an AI Engineer's toolkit. - Jerry Liu, Co-founder and CEO of LlamaIndex (THE

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

chip huyen book tour: *Doing AI* Richard Heimann, 2021-12-14 Artificial intelligence (AI) has captured our imaginations—and become a distraction. Too many leaders embrace the oversized narratives of artificial minds outpacing human intelligence and lose sight of the original problems they were meant to solve. When businesses try to “do AI,” they place an abstract solution before problems and customers without fully considering whether it is wise, whether the hype is true, or how AI will impact their organization in the long term. Often absent is sound reasoning for why they should go down this path in the first place. Doing AI explores AI for what it actually is—and what it is not— and the problems it can truly solve. In these pages, author Richard Heimann unravels the tricky relationship between problems and high-tech solutions, exploring the pitfalls in solution-centric thinking and explaining how businesses should rethink AI in a way that aligns with their cultures, goals, and values. As the Chief AI Officer at Cybraics Inc., Richard Heimann knows from experience that AI-specific strategies are often bad for business. Doing AI is his comprehensive guide that will help readers understand AI, avoid common pitfalls, and identify beneficial applications for their companies. This book is a must-read for anyone looking for clarity and practical guidance for identifying problems and effectively solving them, rather than getting sidetracked by a shiny new “solution” that doesn’t solve anything.

chip huyen book tour: Data Science and Analytics Strategy Kailash Awati, Alexander Scriven, 2023-04-05 This book describes how to establish data science and analytics capabilities in organisations using Emergent Design, an evolutionary approach that increases the chances of successful outcomes while minimising upfront investment. Based on their experiences and those of a number of data leaders, the authors provide actionable advice on data technologies, processes, and governance structures so that readers can make choices that are appropriate to their organisational contexts and requirements. The book blends academic research on organisational change and data science processes with real-world stories from experienced data analytics leaders, focusing on the practical aspects of setting up a data capability. In addition to a detailed coverage of capability, culture, and technology choices, a unique feature of the book is its treatment of emerging issues such as data ethics and algorithmic fairness. Data Science and Analytics Strategy: An Emergent Design Approach has been written for professionals who are looking to build data science and analytics capabilities within their organisations as well as those who wish to expand their knowledge and advance their careers in the data space. Providing deep insights into the intersection between

data science and business, this guide will help professionals understand how to help their organisations reap the benefits offered by data. Most importantly, readers will learn how to build a fit-for-purpose data science capability in a manner that avoids the most common pitfalls.

chip huyen book tour: *Data Science: The Hard Parts* Daniel Vaughan, 2023-11 This practical guide provides a collection of techniques and best practices that are generally overlooked in most data engineering and data science pedagogy. A common misconception is that great data scientists are experts in the big themes of the discipline—machine learning and programming. But most of the time, these tools can only take us so far. In practice, the smaller tools and skills really separate a great data scientist from a not-so-great one. Taken as a whole, the lessons in this book make the difference between an average data scientist candidate and a qualified data scientist working in the field. Author Daniel Vaughan has collected, extended, and used these skills to create value and train data scientists from different companies and industries. With this book, you will: Understand how data science creates value Deliver compelling narratives to sell your data science project Build a business case using unit economics principles Create new features for a ML model using storytelling Learn how to decompose KPIs Perform growth decompositions to find root causes for changes in a metric Daniel Vaughan is head of data at Clip, the leading paytech company in Mexico. He's the author of Analytical Skills for AI and Data Science (O'Reilly).

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