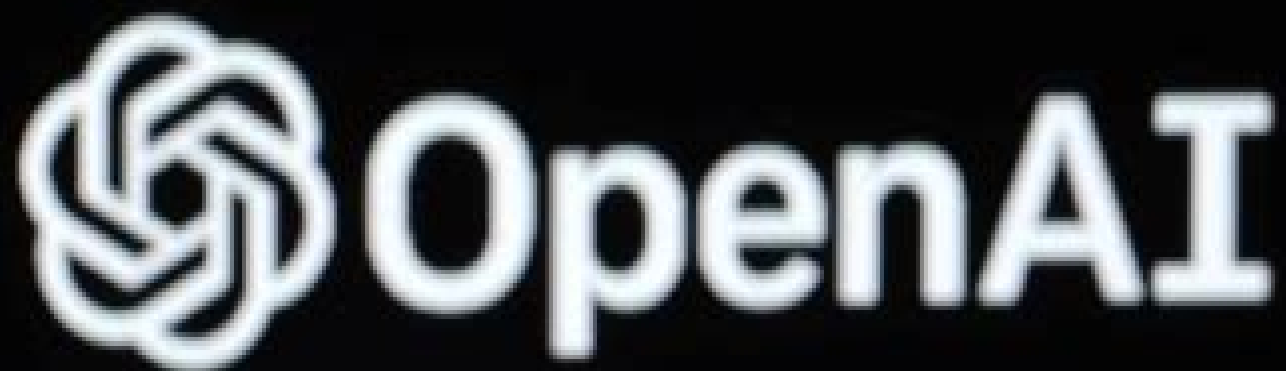




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But that's not all the book also provides hands on examples and tutorials to help you put your newfound knowledge into practice The author will also address the limitations of the model and provide tips on how to achieve optimal results Whether you're a data scientist business owner or student this book is a must read for anyone looking to understand and utilize the power of ChatGPT With its comprehensive understanding of ChatGPT and its potential to transform the way we work and learn this book is sure to be a valuable resource So why wait Get your hands on a copy today and let OpenAI's ChatGPT work for you

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 DescriptionRAG 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

[Data Labeling in Machine Learning with Python](#) Vijaya Kumar Suda,2024-01-31 Take your data preparation machine learning and GenAI skills to the next level by learning a range of Python algorithms and tools for data

labeling Key Features Generate labels for regression in scenarios with limited training data Apply generative AI and large language models LLMs to explore and label text data Leverage Python libraries for image video and audio data analysis and data labeling Purchase of the print or Kindle book includes a free PDF eBook Book Description Data labeling is the invisible hand that guides the power of artificial intelligence and machine learning In today's data driven world mastering data labeling is not just an advantage it's a necessity Data Labeling in Machine Learning with Python empowers you to unearth value from raw data create intelligent systems and influence the course of technological evolution With this book you'll discover the art of employing summary statistics weak supervision programmatic rules and heuristics to assign labels to unlabeled training data programmatically As you progress you'll be able to enhance your datasets by mastering the intricacies of semi supervised learning and data augmentation Venturing further into the data landscape you'll immerse yourself in the annotation of image video and audio data harnessing the power of Python libraries such as seaborn matplotlib cv2 librosa openai and langchain With hands on guidance and practical examples you'll gain proficiency in annotating diverse data types effectively By the end of this book you'll have the practical expertise to programmatically label diverse data types and enhance datasets unlocking the full potential of your data What you will learn Excel in exploratory data analysis EDA for tabular text audio video and image data Understand how to use Python libraries to apply rules to label raw data Discover data augmentation techniques for adding classification labels Leverage K means clustering to classify unsupervised data Explore how hybrid supervised learning is applied to add labels for classification Master text data classification with generative AI Detect objects and classify images with OpenCV and YOLO Uncover a range of techniques and resources for data annotation Who this book is for This book is for machine learning engineers data scientists and data engineers who want to learn data labeling methods and algorithms for model training Data enthusiasts and Python developers will be able to use this book to learn data exploration and annotation using Python libraries Basic Python knowledge is beneficial but not necessary to get started

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

Mastering Retrieval-Augmented Generation

Prashanth Josyula, Karanbir Singh, 2025-03-21

DESCRIPTION Large language models LLMs like GPT BERT and T5 are revolutionizing how we interact with technology powering virtual assistants content generation and data analysis As their influence grows understanding their architecture capabilities and ethical considerations is more important than ever This book breaks down the essentials of LLMs and explores retrieval augmented generation RAG a powerful approach that combines retrieval systems with generative AI for smarter faster and more reliable results It provides a step by step approach to building advanced intelligent systems that utilize an innovative technique known as the RAG thus making them factually correct context aware and sustainable You will start with foundational knowledge understanding architectures training processes and ethical considerations before diving into the mechanics of RAG learning how retrievers and generators collaborate to improve performance The book introduces essential frameworks like LangChain and LlamaIndex walking you through practical implementations troubleshooting and optimization techniques It explores advanced optimization techniques and offers hands on coding exercises to ensure practical understanding Real world case studies and industry applications help bridge the gap between theory and implementation By the final chapter you will have the skills to design build and optimize RAG powered applications integrating LLMs with retrieval systems creating custom pipelines and scaling for performance Whether you are an experienced AI professional or an aspiring developer this book equips you with the knowledge and tools to stay ahead in the ever evolving world of AI

WHAT YOU WILL LEARN Understand the fundamentals of LLMs Explore RAG and its key components Build GenAI applications using LangChain and LlamaIndex Optimize retrieval strategies for accurate and grounded AI responses Deploy scalable production ready RAG pipelines with best practices Troubleshoot and fine tune RAG pipelines for optimal performance

WHO THIS BOOK IS FOR This book is for AI practitioners data scientists students and developers looking to implement RAG using LangChain and LlamaIndex Readers having basic knowledge of Python ML concepts and NLP fundamentals would be able to leverage the knowledge gained to accelerate their careers

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[Learn Generative AI with PyTorch](#) Mark Liu, 2025-01-28 Learn how generative AI works by building your very own models that can write coherent text create realistic images and even make lifelike music Learn Generative AI with PyTorch teaches the underlying mechanics of generative AI by building working AI models from scratch Throughout you ll use the intuitive PyTorch framework that s instantly familiar to anyone who s worked with Python data tools Along the way you ll master the fundamentals of General Adversarial Networks GANs Transformers Large Language Models LLMs variational autoencoders diffusion models LangChain and more In Learn Generative AI with

PyTorch you'll build these amazing models: A simple English to French translator, A text generating model as powerful as GPT-2, A diffusion model that produces realistic flower images, Music generators using GANs and Transformers, An image style transfer model, A zero-shot knowledge agent. The generative AI projects you create use the same underlying techniques and technologies as full-scale models like GPT-4 and Stable Diffusion. You don't need to be a machine learning expert; you can get started with just some basic Python programming skills. About the technology: Transformers, Generative Adversarial Networks (GANs), diffusion models, LLMs, and other powerful deep learning patterns have radically changed the way we manipulate text, images, and sound. Generative AI may seem like magic at first, but with a little Python, the PyTorch framework, and some practice, you can build interesting and useful models that will train and run on your laptop. This book shows you how. About the book: *Learn Generative AI with PyTorch* introduces the underlying mechanics of generative AI by helping you build your own working AI models. You'll begin by creating simple images using a GAN and then progress to writing a language translation transformer line by line. As you work through the fun and fascinating projects, you'll train models to create anime images, write like Hemingway, make music like Mozart, and more. You just need Python and a few machine learning basics to get started. You'll learn the rest as you go. What's inside: Build an English to French translator, Create a text generation LLM, Train a diffusion model to produce high-resolution images, Music generators using GANs and Transformers. About the reader: Examples use simple Python. No deep learning experience required. About the author: Mark Liu is the founding director of the Master of Science in Finance program at the University of Kentucky. The technical editor on this book was Emmanuel Maggiori.

Introduction to .NET Aspire Naga Santhosh Reddy Vootukuri, Tommaso Stocchi, 2025-08-07 DESCRIPTION .NET Aspire is a revolutionary stack created for building cloud-native microservices. It emerges as a game-changer, offering a streamlined, opinionated approach to simplifying orchestrating the .NET microservices and connecting them to cloud services with ease. The book explores the development of .NET Aspire, its core concepts, and a powerful manifest for defining the application's structure and integrations. With this foundation, you will explore practical patterns for seamlessly incorporating polyglot microservices, covering languages like Go, Python, and Node.js. You will gain hands-on experience in OpenTelemetry monitoring, Azure Developer CLI, and Dapr. You will also gain a deep understanding of unit testing practices and AI capabilities, including frameworks like TensorFlow and ML.NET, directly into your .NET Aspire solutions. By the end of this book, you will possess the practical skills and in-depth knowledge to design, build, deploy, and effectively manage sophisticated, production-ready cloud-native applications, empowering you to excel in the world of distributed systems. WHAT YOU WILL LEARN Understand .NET Aspire fundamental and core architecture principles. Build polyglot microservices using C#, Go, Python, and Node.js. Deploy application using Azure Developer CLI. Integrate Dapr for enhanced distributed application capabilities. Build intelligent applications with LLM orchestration and Semantic Kernel. Apply best practices for unit testing .NET Aspire components. Build resilient, observable cloud-native .NET solutions. WHO THIS BOOK IS FOR This book is for .NET developers.

cloud engineers and software architects aiming to build modern cloud native applications Readers should have basic knowledge of NET development and an understanding of web APIs and containerization concepts

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Ultimate Azure AI Services for Gen AI Solutions: Build Advanced Gen AI Solutions with Azure OpenAI, LangChain and Vector Databases to Enhance Efficiency, and Revolutionize Enterprise Operations Shanthababu Pandian, 2025-05-08

Master Generative AI with Azure OpenAI AI Services and advanced tools for real world applications Key Features Step by step and structured content designed for beginners intermediates and experts alike Master all facets of Generative AI development including LLMs LangChain Prompt Engineering and Vector Databases Gain insights into implementation strategies through practical real world examples

Book Description Azure OpenAI provides unparalleled access to cutting edge AI models empowering enterprises to innovate automate and drive transformative business outcomes at scale Ultimate Azure AI Services for Gen AI Solutions is your gateway to mastering Azure OpenAI and Azure AI services Whether you re just starting out or looking to refine your skills this book covers everything from foundational concepts to advanced techniques Dive into topics like Large Language Models LLMs LangChain vector databases embeddings and Python programming with a focus on key Azure components such as Storage Search Services Azure OpenAI Studio and Prompt Flow Through step by step hands on examples you ll gain practical insights into the power of prompt engineering advanced features of Azure s AI capabilities and how to implement solutions in language speech and vision You ll also explore ethical AI practices ensuring responsible and impactful AI development This book equips you with the skills to navigate the full Generative AI lifecycle from development to deployment ensuring your enterprise stays ahead in this fast paced field Don t miss your chance to transform your business with Azure s revolutionary AI tools start building the future today

What you will learn Understand core concepts including Large Language Models LLMs LangChain and embedding techniques Utilize vector databases embedding methods and strategies for effective prompt design for Generative AI solutions Gain hands on experience with Azure Storage Azure Search Service Azure OpenAI Service and Azure OpenAI Studio Leverage Azure s advanced AI capabilities including Language Speech and Vision Studio while adhering to responsible AI practices Master the AI product lifecycle from development to deployment using Python for AI driven applications

Large Language Models Projects Pere Martra, 2024-09-18

This book offers you a hands on experience using models from OpenAI and the Hugging Face library You will use various tools and work on small projects gradually applying the new knowledge you gain The book is divided into three parts Part one covers techniques and libraries Here you ll explore different techniques through small examples preparing to build projects in the next section You ll learn to use common libraries in the world of Large Language Models Topics and technologies covered include chatbots code generation OpenAI API Hugging Face vector databases LangChain

fine tuning PEFT fine tuning soft prompt tuning LoRA QLoRA evaluating models and Direct Preference Optimization Part two focuses on projects You ll create projects understanding design decisions Each project may have more than one possible implementation as there is often not just one good solution You ll also explore LLMOps related topics Part three delves into enterprise solutions Large Language Models are not a standalone solution in large corporate environments they are one piece of the puzzle You ll explore how to structure solutions capable of transforming organizations with thousands of employees highlighting the main role that Large Language Models play in these new solutions This book equips you to confidently navigate and implement Large Language Models empowering you to tackle diverse challenges in the evolving landscape of language processing What You Will Learn Gain practical experience by working with models from OpenAI and the Hugging Face library Use essential libraries relevant to Large Language Models covering topics such as Chatbots Code Generation OpenAI API Hugging Face and Vector databases Create and implement projects using LLM while understanding the design decisions involved Understand the role of Large Language Models in larger corporate settings Who This Book Is For Data analysts data science Python developers and software professionals interested in learning the foundations of NLP LLMs and the processes of building modern LLM applications for various tasks

Deep Learning with TensorFlow and Keras Amita Kapoor, Antonio Gulli, Sujit Pal, Francois Chollet, 2022-10-06 Build cutting edge machine and deep learning systems for the lab production and mobile devices Key Features Understand the fundamentals of deep learning and machine learning through clear explanations and extensive code samples Implement graph neural networks transformers using Hugging Face and TensorFlow Hub and joint and contrastive learning Learn cutting edge machine and deep learning techniques Book Description Deep Learning with TensorFlow and Keras teaches you neural networks and deep learning techniques using TensorFlow TF and Keras You ll learn how to write deep learning applications in the most powerful popular and scalable machine learning stack available TensorFlow 2 x focuses on simplicity and ease of use with updates like eager execution intuitive higher level APIs based on Keras and flexible model building on any platform This book uses the latest TF 2 0 features and libraries to present an overview of supervised and unsupervised machine learning models and provides a comprehensive analysis of deep learning and reinforcement learning models using practical examples for the cloud mobile and large production environments This book also shows you how to create neural networks with TensorFlow runs through popular algorithms regression convolutional neural networks CNNs transformers generative adversarial networks GANs recurrent neural networks RNNs natural language processing NLP and graph neural networks GNNs covers working example apps and then dives into TF in production TF mobile and TensorFlow with AutoML What you will learn Learn how to use the popular GNNs with TensorFlow to carry out graph mining tasks Discover the world of transformers from pretraining to fine tuning to evaluating them Apply self supervised learning to natural language processing computer vision and audio signal processing Combine probabilistic and deep learning models using TensorFlow Probability Train your models on the

cloud and put TF to work in real environments Build machine learning and deep learning systems with TensorFlow 2 x and the Keras API Who this book is for This hands on machine learning book is for Python developers and data scientists who want to build machine learning and deep learning systems with TensorFlow This book gives you the theory and practice required to use Keras TensorFlow and AutoML to build machine learning systems Some machine learning knowledge would be useful We don't assume TF knowledge Unleashing Innovation on Precision Public Health: Highlights from the MCBIOS & MAQC 2021 Joint Conference Ramin Homayouni, Huixiao Hong, Prashanti Manda, Bindu Nanduri, Inimary Toby, 2022-07-07

Data Analysis with LLMs Immanuel Trummer, 2025-05-13 Speed up common data science tasks with AI assistants like ChatGPT and Large Language Models LLMs from Anthropic Cohere Open AI Google Hugging Face and more Data Analysis with LLMs teaches you to use the new generation of AI assistants and Large Language Models LLMs to aid and accelerate common data science tasks Learn how to use LLMs to Analyze text tables images and audio files Extract information from multi modal data lakes Classify cluster transform and query multimodal data Build natural language query interfaces over structured data sources Use LangChain to build complex data analysis pipelines Prompt engineering and model configuration All practical Data Analysis with LLMs takes you from your first prompts through advanced techniques like creating LLM based agents for data analysis and fine tuning existing models You'll learn how to extract data build natural language query interfaces and much more About the technology Large Language Models LLMs can streamline and accelerate almost any data science task Master the techniques in this book and you'll be able to analyze large amounts of text tabular and graph data images videos and more with clear natural language prompts and a few lines of Python code About the book Data Analysis with LLMs shows you exactly how to integrate generative AI into your day to day work as a data scientist In it Cornell professor Immanuel Trummer guides you through a series of engaging projects that introduce OpenAI's Python library tools like LangChain and LlamaIndex and LLMs from Anthropic Cohere and Hugging Face As you go you'll use AI to query structured and unstructured data analyze sound and images and optimize the cost and quality of your data analysis process What's inside Classify cluster transform and query multimodal data Build natural language query interfaces over structured data sources Create LLM based agents for autonomous data analysis Prompt engineering and model configuration About the reader For data scientists and data analysts who know the basics of Python About the author Immanuel Trummer is an associate professor of computer science at Cornell University and a member of the Cornell Database Group Table of Contents Part 1 1 Analyzing data with large language models 2 Chatting with ChatGPT Part 2 3 The OpenAI Python library 4 Analyzing text data 5 Analyzing structured data 6 Analyzing images and videos 7 Analyzing audio data Part 3 8 GPT alternatives 9 Optimizing cost and quality 10 Software frameworks **Kubernetes for Generative AI Solutions** Ashok Srirama, Sukirti Gupta, 2025-06-06 Master the complete Generative AI project lifecycle on Kubernetes K8s from design and optimization to deployment using best practices cost effective strategies and real world examples Key Features Build and

deploy your first Generative AI workload on Kubernetes with confidence Learn to optimize costly resources such as GPUs using fractional allocation Spot Instances and automation Gain hands on insights into observability infrastructure automation and scaling Generative AI workloads Purchase of the print or Kindle book includes a free PDF eBook Book

DescriptionGenerative AI GenAI is revolutionizing industries from chatbots to recommendation engines to content creation but deploying these systems at scale poses significant challenges in infrastructure scalability security and cost management This book is your practical guide to designing optimizing and deploying GenAI workloads with Kubernetes K8s the leading container orchestration platform trusted by AI pioneers Whether you re working with large language models transformer systems or other GenAI applications this book helps you confidently take projects from concept to production You ll get to grips with foundational concepts in machine learning and GenAI understanding how to align projects with business goals and KPIs From there you ll set up Kubernetes clusters in the cloud deploy your first workload and build a solid infrastructure But your learning doesn t stop at deployment The chapters highlight essential strategies for scaling GenAI workloads in production covering model optimization workflow automation scaling GPU efficiency observability security and resilience By the end of this book you ll be fully equipped to confidently design and deploy scalable secure resilient and cost effective GenAI solutions on Kubernetes What you will learn Explore GenAI deployment stack agents RAG and model fine tuning Implement HPA VPA and Karpenter for efficient autoscaling Optimize GPU usage with fractional allocation MIG and MPS setups Reduce cloud costs and monitor spending with Kubecost tools Secure GenAI workloads with RBAC encryption and service meshes Monitor system health and performance using Prometheus and Grafana Ensure high availability and disaster recovery for GenAI systems Automate GenAI pipelines for continuous integration and delivery Who this book is for This book is for solutions architects product managers engineering leads DevOps teams GenAI developers and AI engineers It s also suitable for students and academics learning about GenAI Kubernetes and cloud native technologies A basic understanding of cloud computing and AI concepts is needed but no prior knowledge of Kubernetes is required

[Power Platform and the AI Revolution](#) Aaron Guilmette,2024-05-31 Unlock the untapped potential of ChatGPT CoPilot and Azure AI services by integrating them with the Microsoft Power Platform Key Features Gain insights into the latest AI technologies and their business applications Use generative AI to build apps workflows and chatbots Learn how to integrate AI services to automate work and deliver apps for specific business needs Purchase of the print or Kindle book includes a free PDF eBook Book

DescriptionIn this AI era employing leading machine learning and AI models such as ChatGPT for responding to customer feedback and prototyping applications is crucial to drive business success in the competitive market This book is an indispensable guide to integrating cutting edge technology into business operations and leveraging AI to analyze sentiment at scale helping free up valuable time to enhance customer relationships Immerse yourself in the future of AI enabled application development by working with Power Automate Power Apps and the new Copilot Studio With this book you ll learn

foundational AI concepts as you explore the extensive capabilities of the low code Power Platform You'll see how Microsoft's advanced machine learning technologies can streamline common business tasks such as extracting key data elements from customer documents reviewing customer emails and validating passports and drivers licenses The book also guides you in harnessing the power of generative AI to expedite tasks like creating executive summaries building presentations and analyzing resumes You'll build apps using natural language prompting and see how ChatGPT can be used to power chatbots in your organization By the end of this book you'll have charted your path to developing your own reusable AI automation patterns to propel your business operations into the future What you will learn Interact with ChatGPT using connectors and HTTP calls Train AI models to identify the key elements of documents Use generative AI to answer questions about organizational content Leverage AI image recognition services to describe pictures Use generative AI tools to help build workflows and apps Build chatbots using the new Copilot Studio Analyze customer feedback using AI sentiment analysis tools such as AI Builder Who this book is for If you're interested in exploring the capabilities of modern AI technologies in the workplace this book is for you Specially tailored for IT professionals developers business leaders human resources administrators managers and entrepreneurs anyone aspiring to become a productivity rockstar will find this book helpful for extending their skill set through hands-on exercises The content is beginner friendly assuming no knowledge of machine learning or artificial intelligence concepts making it a perfect starting point for newcomers to the field

Web Scraping with Python Ryan Mitchell, 2024-02-14 If programming is magic then web scraping is surely a form of wizardry By writing a simple automated program you can query web servers request data and parse it to extract the information you need This thoroughly updated third edition not only introduces you to web scraping but also serves as a comprehensive guide to scraping almost every type of data from the modern web Part I focuses on web scraping mechanics using Python to request information from a web server performing basic handling of the server's response and interacting with sites in an automated fashion Part II explores a variety of more specific tools and applications to fit any web scraping scenario you're likely to encounter Parse complicated HTML pages Develop crawlers with the Scrapy framework Learn methods to store the data you scrape Read and extract data from documents Clean and normalize badly formatted data Read and write natural languages Crawl through forms and logins Scrape JavaScript and crawl through APIs Use and write image to text software Avoid scraping traps and bot blockers Use scrapers to test your website

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

sections as follows main conference PhD symposium and research in progress Microsoft SharePoint Premium in the Real World Jacob J. Sanford, Woodrow W. Windischman, Dustin Willard, Ryan Dennis, 2024-03-18 Skillfully deploy Microsoft SharePoint Premium to automate your organization's document processing and management In Microsoft SharePoint Premium in the Real World Bringing Practical Cloud AI to Content Management a team of veteran Microsoft AI consultants delivers an insightful and easy to follow exploration of how to apply SharePoint's content AI and advanced machine learning capabilities to your firm's document processing automation project Using a simple low code no code approach the authors explain how you can find organize and classify the documents in your SharePoint libraries You'll learn to use Microsoft SharePoint Premium to automate forms processing document understanding image processing content assembly and metadata search Readers will also find Strategies for using both custom and pre built off the rack models to build your solutions The information you need to understand the Azure Cognitive Services ecosystem more fully and how you can use it to build custom tools for your organization Examples of solutions that will allow you to avoid the manual processing of thousands of your own documents and files An essential and hands on resource for information managers Microsoft SharePoint Premium in the Real World is a powerful tool for developers and non developers alike **Building Data-Driven Applications with LlamaIndex** Andrei Gheorghiu, 2024-05-10 Solve real world problems easily with artificial intelligence AI using the LlamaIndex data framework to enhance your LLM based Python applications Key Features Examine text chunking effects on RAG workflows and understand security in RAG app development Discover chatbots and agents and learn how to build complex conversation engines Build as you learn by applying the knowledge you gain to a hands on project Book Description Discover the immense potential of Generative AI and Large Language Models LLMs with this comprehensive guide Learn to overcome LLM limitations such as contextual memory constraints prompt size issues real time data gaps and occasional hallucinations Follow practical examples to personalize and launch your LlamaIndex projects mastering skills in ingesting indexing querying and connecting dynamic knowledge bases From fundamental LLM concepts to LlamaIndex deployment and customization this book provides a holistic grasp of LlamaIndex's capabilities and applications By the end you'll be able to resolve LLM challenges and build interactive AI driven applications using best practices in prompt engineering and troubleshooting Generative AI projects What you will learn Understand the LlamaIndex ecosystem and common use cases Master techniques to ingest and parse data from various sources into LlamaIndex Discover how to create optimized indexes tailored to your use cases Understand how to query LlamaIndex effectively and interpret responses Build an end to end interactive web application with LlamaIndex Python and Streamlit Customize a LlamaIndex configuration based on your project needs Predict costs and deal with potential privacy issues Deploy LlamaIndex applications that others can use Who this book is for This book is for Python developers with basic knowledge of natural language processing NLP and LLMs looking to build interactive LLM applications Experienced developers and conversational AI developers will also

benefit from the advanced techniques covered in the book to fully unleash the capabilities of the framework Hands-On ROS for Robotics Programming Bernardo Ronquillo Japón, 2020-02-26 Take your ROS skills to the next level by implementing complex robot structures in a ROS simulation Key Features Learn fundamental ROS concepts and apply them to solve navigation tasks Work with single board computers to program smart behavior in mobile robots Understand how specific characteristics of the physical environment influence your robot's performance Book Description Connecting a physical robot to a robot simulation using the Robot Operating System ROS infrastructure is one of the most common challenges faced by ROS engineers With this book you'll learn how to simulate a robot in a virtual environment and achieve desired behavior in equivalent real world scenarios This book starts with an introduction to GoPiGo3 and the sensors and actuators with which it is equipped You'll then work with GoPiGo3's digital twin by creating a 3D model from scratch and running a simulation in ROS using Gazebo Next the book will show you how to use GoPiGo3 to build and run an autonomous mobile robot that is aware of its surroundings Finally you'll find out how a robot can learn tasks that have not been programmed in the code but are acquired by observing its environment You'll even cover topics such as deep learning and reinforcement learning By the end of this robot programming book you'll be well versed with the basics of building specific purpose applications in robotics and developing highly intelligent autonomous robots from scratch What you will learn Get to grips with developing environment aware robots Gain insights into how your robots will react in physical environments Break down a desired behavior into a chain of robot actions Relate data from sensors with context to produce adaptive responses Apply reinforcement learning to allow your robot to learn by trial and error Implement deep learning to enable your robot to recognize its surroundings Who this book is for If you are an engineer looking to build AI powered robots using the ROS framework this book is for you Robotics enthusiasts and hobbyists who want to develop their own ROS robotics projects will also find this book useful Knowledge of Python and/or C programming and familiarity with single board computers such as Raspberry Pi is necessary to get the most out of this book

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