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Gus Frazer

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Image Processing and Computer Vision Masterclass with Python Sandipan Dey,2025-07-31 DESCRIPTION Image processing and computer vision technologies combined with the rapid advancements in generative AI have become foundational to many modern applications As visual data continues to grow exponentially the ability to analyze interpret and generate images using advanced algorithms and AI is more critical than ever for driving innovation across industries This book provides a thorough exploration of advanced techniques and practical implementations in the field of computer vision This book offers a problem oriented approach that bridges traditional image processing with modern machine learning and generative AI methods This new edition significantly expands into specialized domains with medical imaging applications using professional libraries like pydicom ITK and nnUNet for clinical diagnosis including COVID 19 detection and brain tumor segmentation plus remote sensing analysis with satellite processing By the end of this book readers will have developed strong practical skills in both classical and cutting edge image processing and computer vision techniques empowered to confidently design implement and adapt solutions across a wide range of real world applications They will emerge with a deep understanding of theory hands on coding experience and the ability to leverage AI and generative models to push the boundaries of visual computing WHAT YOU WILL LEARN Restore and enhance images using classical and deep learning methods Segment images with advanced clustering and neural network techniques Extract and match features for image alignment and recognition Build and train image classifiers with ML and AI Learn advanced restoration and inpainting techniques using cutting edge deep learning models Explore specialized domain expertise in medical imaging applications using professional libraries WHO THIS BOOK IS FOR This book is ideal for undergraduate and graduate students researchers and professionals in computer vision image processing and AI It also serves computer vision engineers image analysts data scientists software engineers and industry practitioners seeking practical hands on expertise using Python

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Unlocking the Potential of OpenAI's ChatGPT DAVID YAO, Have you heard of OpenAI's ChatGPT but have no idea what it is or how to use it Look no further This book provides a comprehensive introduction to this revolutionary language model In this book the author takes you through the history of ChatGPT and its capabilities as well as its practical applications in fields such as customer service content creation and data analysis You'll also learn how ChatGPT works and what sets it apart from other language models 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.

Data Cleaning with Power BI Gus Frazer, 2024-02-29

Unlock the full potential of your data by mastering the art of cleaning, preparing, and transforming data with Power BI for smarter insights and data visualizations. Key Features: Implement best practices for connecting, preparing, cleaning, and analyzing multiple sources of data using Power BI; Conduct exploratory data analysis (EDA) using DAX, PowerQuery, and the M language; Apply your newfound knowledge to tackle common data challenges for visualizations in Power BI.

Purchase of the print or Kindle book includes a free PDF eBook. Book Description: Microsoft Power BI offers a range of powerful data cleaning and preparation options through tools such as DAX Power Query and the M language. However, despite its user-friendly interface, mastering it can be challenging. Whether you're a seasoned analyst or a novice exploring the potential of Power BI, this comprehensive guide equips you with techniques to transform raw data into a reliable foundation for insightful analysis and visualization. This book serves as a comprehensive guide to data cleaning, starting with data quality, common data challenges, and best practices for handling data. You'll learn how to import and clean data with Query Editor and transform data using the M query language. As you advance, you'll explore Power BI's data modeling capabilities for efficient cleaning and establishing relationships. Later chapters cover best practices for using Power Automate for data cleaning and task automation. Finally, you'll discover how OpenAI and ChatGPT can make data cleaning in Power BI easier. By the end of the book, you will have a comprehensive understanding of data cleaning concepts, techniques, and how to use Power BI and its tools for effective data preparation. What you will learn: Connect to data sources using both import and DirectQuery options; Use the Query Editor to apply data transformations; Transform your data using the M query language; Design clean and optimized data models by creating relationships and DAX calculations; Perform exploratory data analysis using Power BI; Address the most common data challenges with best practices; Explore the benefits of using OpenAI, ChatGPT, and Microsoft Copilot for simplifying data cleaning.

Who this book is for: If you're a data analyst, business intelligence professional, business analyst, data scientist, or anyone who works with data on a regular basis, this book is for you. It's a useful resource for anyone who wants to gain a deeper understanding of data quality issues and best practices for data cleaning in Power BI. If you have a basic knowledge of BI tools and concepts, this book will help you advance your skills in Power BI.

Unlocking Data with Generative AI and RAG Keith Bourne, 2024-09-27

Leverage cutting-edge generative AI techniques such as RAG to realize the potential of your data and drive innovation, as well as gain strategic advantage. Key Features: Optimize data retrieval and generation using vector databases; Boost decision making and automate workflows with AI agents; Overcome common

challenges in implementing real world RAG systems Purchase of the print or Kindle book includes a free PDF eBook Book Description Generative AI is helping organizations tap into their data in new ways with retrieval augmented generation RAG combining the strengths of large language models LLMs with internal data for more intelligent and relevant AI applications The author harnesses his decade of ML experience in this book to equip you with the strategic insights and technical expertise needed when using RAG to drive transformative outcomes The book explores RAG's role in enhancing organizational operations by blending theoretical foundations with practical techniques You'll work with detailed coding examples using tools such as LangChain and Chroma's vector database to gain hands on experience in integrating RAG into AI systems The chapters contain real world case studies and sample applications that highlight RAG's diverse use cases from search engines to chatbots You'll learn proven methods for managing vector databases optimizing data retrieval effective prompt engineering and quantitatively evaluating performance The book also takes you through advanced integrations of RAG with cutting edge AI agents and emerging non LLM technologies By the end of this book you'll be able to successfully deploy RAG in business settings address common challenges and push the boundaries of what's possible with this revolutionary AI technique What you will learn Understand RAG principles and their significance in generative AI Integrate LLMs with internal data for enhanced operations Master vectorization vector databases and vector search techniques Develop skills in prompt engineering specific to RAG and design for precise AI responses Familiarize yourself with AI agents roles in facilitating sophisticated RAG applications Overcome scalability data quality and integration issues Discover strategies for optimizing data retrieval and AI interpretability Who this book is for This book is for AI researchers data scientists software developers and business analysts looking to leverage RAG and generative AI to enhance data retrieval improve AI accuracy and drive innovation It is particularly suited for anyone with a foundational understanding of AI who seeks practical hands on learning The book offers real world coding examples and strategies for implementing RAG effectively making it accessible to both technical and non technical audiences A basic understanding of Python and Jupyter Notebooks is required

Build a Website with ChatGPT Paul McFedries, 2024-10-01 Create a portfolio of cool and creative websites all without having to write your own code Build a Website with ChatGPT teaches you zero coding web development utilizing powerful generative AI tools like ChatGPT If you can open a web browser you're ready to start building absolutely no coding experience required Inside Build a Website with ChatGPT you'll learn the important skills of AI assisted web programming such as Crafting effective prompts to generate HTML CSS and JavaScript Converting text into images with DALL-E integration Building navigation bars image galleries and contact forms Deploying fully functional sites to the web for free Customizing the generated code for unique sites Inside Build a Website with ChatGPT you'll learn the high level coding concepts that let you check and perfect AI output prompting skills that deliver the exact code you need and how to properly deploy your site to the web for free Annotated code samples and advice on code customization give you the perfect balance of

understanding and convenience Plus you'll get access to a tried and tested repository of prompts and working code About the technology You can build amazing websites even if you don't know HTML CSS and JavaScript Just describe what you want in plain English and let ChatGPT take care of the gnarly details This book guides you step by step as you create user friendly forms interesting graphics and interactive web pages using nothing but AI and your imagination About the book Build a Website with ChatGPT shows you how to make websites in an AI first world no experience required You'll start with the basics of generating pages with ChatGPT and by the end of the second chapter your first site will be up and running Author Paul McFedries then shows you how to add interesting text and graphics forms for user input and even custom CSS to give your pages some pizzazz As you go you'll expand your new AI skills to create photo galleries portfolios catalog pages and more What's inside Writing effective prompts to create code text and graphics Adding navigation bars image galleries and contact forms Deploying your sites to the web for free Adding your unique touches to AI generated pages About the reader No experience with web development or programming required If you can create a Word document you can build a website About the author Paul McFedries has written over 100 books on web development and other technology topics including Web Design Playground Manning Publications The technical editor on this book was Anirudh V Prabhu Table of Contents 1 Introducing website creation with ChatGPT 2 Creating and deploying your first web page 3 Working with fonts colors and headings 4 Adding structure to a page 5 Publishing page posts 6 Adding links and navigation 7 Creating site content 8 Generating site forms 9 Adding lists to your pages 10 Setting up a photo gallery 11 Creating a portfolio page 12 Building an article page 13 Coding an interactive course catalog A Getting ready to build web pages with ChatGPT B Deploying your site C Learning a few ChatGPT best practices *The American Legion* ,2001 *The Scottish Farmer* ,1930 *Building AI Applications with ChatGPT APIs* Martin Yanev,2023-09-21 Enhance your application development skills by building a ChatGPT clone code bug fixer quiz generator translation app email auto reply PowerPoint generator and more in just one read Key Features Become proficient in building AI applications with ChatGPT DALL-E and Whisper Understand how to select the optimal ChatGPT model and fine tune it for your specific use case Monetize your applications by integrating the ChatGPT API with Stripe Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionCombining ChatGPT APIs with Python opens doors to building extraordinary AI applications By leveraging these APIs you can focus on the application logic and user experience while ChatGPT's robust NLP capabilities handle the intricacies of human like text understanding and generation This book is a guide for beginners to master the ChatGPT Whisper and DALL-E APIs by building ten innovative AI projects These projects offer practical experience in integrating ChatGPT with frameworks and tools such as Flask Django Microsoft Office APIs and PyQt Throughout this book you'll get to grips with performing NLP tasks building a ChatGPT clone and creating an AI driven code bug fixing SaaS application You'll also cover speech recognition text to speech functionalities language translation and generation of email replies and PowerPoint presentations

This book teaches you how to fine tune ChatGPT and generate AI art using DALL E APIs and then offers insights into selling your apps by integrating ChatGPT API with Stripe With practical examples available on GitHub the book gradually progresses from easy to advanced topics cultivating the expertise required to develop deploy and monetize your own groundbreaking applications by harnessing the full potential of ChatGPT APIs What you will learn Develop a solid foundation in using the ChatGPT API for natural language processing tasks Build deploy and capitalize on a variety of desktop and SaaS AI applications Seamlessly integrate ChatGPT with established frameworks such as Flask Django and Microsoft Office APIs Channel your creativity by integrating DALL E APIs to produce stunning AI generated art within your desktop applications Experience the power of Whisper API s speech recognition and text to speech features Discover techniques to optimize ChatGPT models through the process of fine tuning Who this book is for With best practices tips and tricks for building applications using the ChatGPT API this book is for programmers entrepreneurs and software enthusiasts Python developers interested in AI applications involving ChatGPT software developers who want to integrate AI technology and web developers looking to create AI powered web applications with ChatGPT will also find this book useful A fundamental understanding of Python programming and experience of working with APIs will help you make the most of this book

Editor & Publisher

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Potential of OpenAI's ChatGPT DAVID YAO, Have you heard of OpenAI s ChatGPT but have no idea what it is or how to use it Look no further This book provides a comprehensive introduction to this revolutionary language model In this book the author takes you through the history of ChatGPT and its capabilities as well as its practical applications in fields such as customer service content creation and data analysis You ll also learn how ChatGPT works and what sets it apart from other language models 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

Generative AI for Web Development Tom Auger,Emma Saroyan,2024-11-20 Explore the world of Generative AI and understand why it matters This book is divided into two parts introducing tools such as ChatGPT DALL E and will show you how to use them to build AI powered web apps The first part of the book describes Generative AI and covers the essential models and APIs from OpenAI Legal ethical and security considerations are discussed to help you decide whether it is an appropriate tool for your projects You ll then review ChatGPT and see how to use it effectively for generating code This is followed by a review of best practices and tips and techniques for getting around the limitations of ChatGPT and other OpenAI APIs The second part of the book provides practical guide to building a series of web apps with Next js that

showcase how to use the OpenAI APIs For example you ll learn how to build a Story Poetry generator a language learning app and a blog site with a custom Chatbot widget The code for the web apps is generated using ChatGPT When done with this book you ll have a clear understanding of Generative AI and be well on your way to building web applications powered by OpenAI APIs and Next js What You Will Learn Assess the legal ethical and security concerns with using Generative AI in web applications Review the latest APIs provided by OpenAI for generating text and image Use ChatGPT to generate code for web projects as well as tips and tricks to working around the limitations Who This Book Is For Experienced web developers and software engineers who know their way around HTML CSS and JavaScript but have limited or no experience using Generative AI to build web applications

Openai Gerard Blokdyk,2017-11-21 Which individuals teams or departments will be involved in OpenAI If substitutes have been appointed have they been briefed on the OpenAI goals and received regular communications as to the progress to date How can the value of OpenAI be defined What is our formula for success in OpenAI What is the total cost related to deploying OpenAI including any consulting or professional services Defining designing creating and implementing a process to solve a business challenge or meet a business objective is the most valuable role In EVERY company organization and department Unless you are talking a one time single use project within a business there should be a process Whether that process is managed and implemented by humans AI or a combination of the two it needs to be designed by someone with a complex enough perspective to ask the right questions Someone capable of asking the right questions and step back and say What are we really trying to accomplish here And is there a different way to look at it This Self Assessment empowers people to do just that whether their title is entrepreneur manager consultant Vice President CxO etc they are the people who rule the future They are the person who asks the right questions to make OpenAI investments work better This OpenAI All Inclusive Self Assessment enables You to be that person All the tools you need to an in depth OpenAI Self Assessment Featuring 700 new and updated case based questions organized into seven core areas of process design this Self Assessment will help you identify areas in which OpenAI improvements can be made In using the questions you will be better able to diagnose OpenAI projects initiatives organizations businesses and processes using accepted diagnostic standards and practices implement evidence based best practice strategies aligned with overall goals integrate recent advances in OpenAI and process design strategies into practice according to best practice guidelines Using a Self Assessment tool known as the OpenAI Scorecard you will develop a clear picture of which OpenAI areas need attention Your purchase includes access details to the OpenAI self assessment dashboard download which gives you your dynamically prioritized projects ready tool and shows your organization exactly what to do next Your exclusive instant access details can be found in your book **ChatGPT Atlas Browser Guide 2025** Konstantin Titov,2025-10-22 ChatGPT Atlas Browser Guide 2025 How to Use OpenAI s AI Browser Agent Mode and Browser Memories on macOS Setup Privacy Controls and Productivity Workflows Be first move fast ChatGPT Atlas is OpenAI s new chat first web browser and this is one of the first

hands on guides written for real users who want results not hype Whether you're a student creator analyst or team lead this book shows you exactly how to install Atlas on macOS set it up in minutes and turn everyday browsing into automated private high leverage workflows Atlas brings ChatGPT to any page adds optional browser memories and introduces Agent Mode so it can take actions for you with guardrails you control What you'll learn step by step Install set up on macOS sign in import passwords bookmarks history and tune the new tab Ask ChatGPT experience for speed Search less finish more use on page chat for instant summaries clean citations comparisons and follow up questions without copy paste context juggling Stay in control master Incognito the address bar page visibility toggle and data controls so Atlas only sees what you allow Learn how memories are optional visible archivable and deletable Agent Mode safely let ChatGPT click around for you researching planning and completing routine tasks while respecting built in limits e.g. it can't run code or install extensions and your approvals Power workflows research briefs competitor scans shopping carts study aids and executive summaries you can trust For families teams understand parental controls and Business Enterprise basics so you can enable features responsibly Who this book is for Students researchers who want faster reading better notes and self tests as they learn Professionals who live in the browser and need reliable automation for docs data and decisions Creators marketers who need quick comparisons curated sources and production ready summaries Team admins parents who care about privacy transparency and safe defaults Why this guide why now Atlas changes the center of gravity from URLs and tabs to conversation and action It's chat powered browsing with privacy controls and optional memories plus Agent Mode when you want hands off execution all shipping now on macOS with Windows iOS and Android experiences coming next We distill the launch details and best practices into a practical zero fluff playbook you can use on day one Up to date launch window coverage Written around the current release macOS availability Agent Mode preview for Plus Pro Business and the latest data controls parental controls so you're learning features that exist today not someday If you're ready to browse less and accomplish more ChatGPT Atlas Browser Guide 2025 is your fast start to the web's chat first future [Openai](#) Gerardus Blokdyk, 2018-01-13 Which individuals teams or departments will be involved in OpenAI If substitutes have been appointed have they been briefed on the OpenAI goals and received regular communications as to the progress to date How can the value of OpenAI be defined What is our formula for success in OpenAI What is the total cost related to deploying OpenAI including any consulting or professional services Defining designing creating and implementing a process to solve a business challenge or meet a business objective is the most valuable role In EVERY company organization and department Unless you are talking a one time single use project within a business there should be a process Whether that process is managed and implemented by humans AI or a combination of the two it needs to be designed by someone with a complex enough perspective to ask the right questions Someone capable of asking the right questions and step back and say What are we really trying to accomplish here And is there a different way to look at it This Self Assessment empowers people to do just that whether their title is

entrepreneur manager consultant Vice President CxO etc they are the people who rule the future They are the person who asks the right questions to make OpenAI investments work better This OpenAI All Inclusive Self Assessment enables You to be that person All the tools you need to an in depth OpenAI Self Assessment Featuring 700 new and updated case based questions organized into seven core areas of process design this Self Assessment will help you identify areas in which OpenAI improvements can be made In using the questions you will be better able to diagnose OpenAI projects initiatives organizations businesses and processes using accepted diagnostic standards and practices implement evidence based best practice strategies aligned with overall goals integrate recent advances in OpenAI and process design strategies into practice according to best practice guidelines Using a Self Assessment tool known as the OpenAI Scorecard you will develop a clear picture of which OpenAI areas need attention Your purchase includes access details to the OpenAI self assessment dashboard download which gives you your dynamically prioritized projects ready tool and shows your organization exactly what to do next Your exclusive instant access details can be found in your book [OpenAI API Cookbook](#) Henry Habib,2024-03-12 Explore the vast possibilities of integrating the ChatGPT API across various domains from creating simple wrappers to developing knowledge based assistants multi model applications and conversational interfaces Key Features Understand the different elements endpoints and parameters of the OpenAI API Build tailored intelligent applications and workflows with the OpenAI API Create versatile assistants with for a multitude of tasks Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionAs artificial intelligence continues to reshape industries with OpenAI at the forefront of AI research knowing how to create innovative applications such as chatbots virtual assistants content generators and productivity enhancers is a game changer This book takes a practical recipe based approach to unlocking the power of OpenAI API to build high performance intelligent applications in diverse industries and seamlessly integrate ChatGPT in your workflows to increase productivity You ll begin with the OpenAI API fundamentals covering setup authentication and key parameters and quickly progress to the different elements of the OpenAI API Once you ve learned how to use it effectively and tweak parameters for better results you ll follow advanced recipes for enhancing user experience and refining outputs The book guides your transition from development to live application deployment setting up the API for public use and application backend Further you ll discover step by step recipes for building knowledge based assistants and multi model applications tailored to your specific needs By the end of this book you ll have worked through recipes involving various OpenAI API endpoints and built a variety of intelligent applications ready to apply this experience to building AI powered solutions of your own What you will learn Grasp the fundamentals of the OpenAI API Navigate the API s capabilities and limitations of the API Set up the OpenAI API with step by step instructions from obtaining your API key to making your first call Explore advanced features such as system messages fine tuning and the effects of different parameters Integrate the OpenAI API into existing applications and workflows to enhance their functionality with AI Design and build applications that fully harness the

power of ChatGPT Who this book is for This book is perfect for developers data scientists AI tech enthusiasts citizen developers and no code aficionados keen on using and mastering the OpenAI API Whether you're a beginner or experienced professional this book is ideal for quickly creating intelligent applications such as chatbots or content generators through step by step recipes that take you from the basics of the API to creating sophisticated applications systematically The OpenAI API is accessed with Python in this book so familiarity with Python and APIs is preferred but not mandatory *Chatgpt | Generative AI - The Step-By-Step Guide For OpenAI & Azure OpenAI In 36 Hrs.* Ajit Dash,2023-08-27 Dive into the world of OpenAI and Azure OpenAI in 36 hrs with this comprehensive guide From understanding the fundamentals of AI and machine learning to exploring the power of GPT models and advanced NLP techniques this book equips you with the knowledge to leverage cutting edge technologies Learn how to harness tokens navigate installations and master prompt engineering Whether you're a developer data professional or AI enthusiast this book offers hands on engagement real world relevance and practical insights Unveil the potential of OpenAI and Azure OpenAI to transform your AI journey In this Step by Step Guide you'll find clear and concise instructions practical examples and hands on exercises that will accelerate your learning journey From understanding the fundamentals of AI OpenAI Azure OpenAI Machine learning to exploring natural language processing and building chatbots you'll gain the knowledge and confidence to apply these technologies in real world scenarios

CHAPTER SUMMARY

- Chapter 1 Introduction to OpenAI and Azure OpenAI Exploring OpenAI's mission Azure OpenAI's features benefits and differences between OpenAI and Azure OpenAI
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- Chapter 12 Use Cases Installation instructions and examples of interview question generators stock market recommendations and building chatbots

GPT-4 Complete Mark Huck,2023-04-03 Here is the definitive technical guide to GPT 4 as well as its loquacious counterpart ChatGPT Along with step by step examples for prompt engineering and fine tuning the book looks at the current

discussions around the technology's promise and peril *The Language of AI* Jim Stephens, 2023-02-21 ChatGPT is an artificial intelligence language model that has the ability to process and generate human-like text. It is a product of the latest breakthroughs in natural language processing (NLP) and machine learning, which has enabled it to become one of the most advanced language models to date. The development of ChatGPT started with a research paper published in 2018 by OpenAI, a leading research lab in the field of artificial intelligence. In the paper, the researchers introduced a new model called GPT (Generative Pre-trained Transformer) that could generate coherent and human-like text using unsupervised learning. The initial GPT model had 117 million parameters and was pre-trained on a large corpus of text data from the internet. Over time, the researchers at OpenAI continued to improve the GPT model, leading to the development of larger and more sophisticated versions of the model with up to 1.75 billion parameters. In June 2020, OpenAI released its most advanced version yet, known as GPT 3, which had a whopping 175 billion parameters and was capable of performing an unprecedented number of tasks, including translation, summarization, and even creative writing. ChatGPT is a variant of GPT 3 that has been fine-tuned to specialize in conversational interactions with humans. It has been pre-trained on a large corpus of conversational data, allowing it to understand and generate natural language responses in a conversational setting. When a user inputs a text prompt, ChatGPT uses its pre-trained models to analyze the prompt and generate a response that is likely to be appropriate and relevant to the context. The development of ChatGPT and other advanced language models has brought about a significant shift in the field of NLP and AI. These models have the potential to revolutionize the way humans communicate with machines and with each other, opening up new possibilities for language-based applications and interactions. In the following chapters of this book, we will delve deeper into the technical details of how ChatGPT works, explore its capabilities, and discuss the ethical and societal implications of using such advanced language models. But first, let's take a closer look at how ChatGPT was developed and the research that went into making it a reality.

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