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OpenAI GPT For Python Developers Aymen El Amri,2024-05-21 OpenAI GPT for Python Developers is your comprehensive guide to mastering the integration of OpenAI s GPT models into your Python projects enhancing applications with various AI capabilities from chat completions to AI avatars Key Features Strategies for optimizing and personalizing GPT models for specific applications Insights into integrating additional OpenAI technologies like Whisper and Weaviate Strong emphasis on responsible AI development and deployment Book Description OpenAI GPT for Python Developers is meticulously crafted to provide Python developers with a deep dive into the mechanics and applications of GPT technology

beginning with a captivating narrative on the evolution of OpenAI and the fundamental workings of GPT models As readers progress they will be expertly guided through the essential steps of setting up a development environment tailored for AI innovations coupled with insightful advice on selecting the most appropriate GPT model to suit specific project needs The guide progresses into practical tutorials that cover the implementation of chat completions and the art of prompt engineering providing a solid foundation in harnessing the capabilities of GPT for generating human like text responses Practical applications are further expanded with discussions on the creation of autonomous AI to AI dialogues the development of AI avatars and the strategic use of AI in interactive applications In addition to technical skills this book addresses the ethical implications and prospects of AI technologies encouraging a holistic view of AI development The guide is enriched with detailed examples step by step tutorials and comprehensive explanations that illuminate the theoretical aspects and emphasize practical implementation What you will learn Set up the development environment for OpenAI GPT Understand and choose the right GPT model for your needs Implement advanced prompt engineering techniques Explore embedding and advanced embedding examples Utilize OpenAI s Whisper for speech recognition and translation Integrate OpenAI TTS models for text to speech applications. Who this book is for This book is designed for readers at an intermediate to advanced level who have a basic understanding of machine learning concepts and are eager to expand their expertise in AI with a focus on OpenAI s technologies Ideal for those involved in AI driven projects the book assumes familiarity with Python programming and a fundamental grasp of AI principles It's especially beneficial for developers aiming to integrate GPT models into applications AI researchers and technical professionals involved in AI product development Applications with OpenAI APIs Martin Yanev, 2024-10-04 Improve your app development skills by building a ChatGPT clone code bug fixer guiz generator translation app email auto reply PowerPoint generator and more Key Features Transition into an expert AI developer by mastering ChatGPT concepts including fine tuning and integrations Gain hands on experience through real world projects covering a wide range of AI applications Implement payment systems in your applications by integrating the ChatGPT API with Stripe Purchase of the print or Kindle book includes a free PDF eBook Book Description Unlock the power of AI in your applications with ChatGPT with this practical guide that shows you how to seamlessly integrate OpenAI APIs into your projects enabling you to navigate complex APIs and ensure seamless functionality with ease This new edition is updated with key topics such as OpenAI Embeddings which ll help you understand the semantic relationships between words and phrases You ll find out how to use ChatGPT Whisper and DALL E APIs through 10 AI projects using the latest OpenAI models GPT 3 5 and GPT 4 with Visual Studio Code as the IDE Within these projects you ll integrate ChatGPT with frameworks and tools such as Flask Django Microsoft Office APIs and PyQt You ll get to grips with NLP tasks build a ChatGPT clone and create an AI code bug fixing SaaS app The chapters will also take you through speech recognition text to speech capabilities language translation generating email replies creating PowerPoint presentations and

fine tuning ChatGPT along with adding payment methods by integrating the ChatGPT API with Stripe By the end of this book you ll be able 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 OpenAI API for NLP tasks Build deploy and integrate payments into various desktop and SaaS AI applications Integrate ChatGPT with frameworks such as Flask Django and Microsoft Office APIs Unleash your creativity by integrating DALL E APIs to generate stunning AI art within your desktop apps Experience the power of Whisper API s speech recognition and text to speech features Find out how to fine tune ChatGPT models for your specific use case Master AI embeddings to measure the relatedness of text strings Who this book is for This book is for a diverse range of professionals including programmers entrepreneurs and software enthusiasts Beginner programmers Python developers exploring AI applications with ChatGPT software developers integrating AI technology and web developers creating AI powered web applications with ChatGPT will find this book beneficial Scholars and researchers working on AI projects with ChatGPT will also find it valuable Basic knowledge of Python and familiarity with APIs is needed to understand the topics covered in this book Azure OpenAI Essentials Amit Mukherjee, Adithya Saladi, 2025-02-27 Build innovative scalable and ethical AI solutions by harnessing the full potential of generative AI with this exhaustive guide Key Features Explore the capabilities of Azure OpenAI's LLMs Craft end to end applications by utilizing the synergy of Azure OpenAI and Cognitive Services Design enterprise grade GenAI solutions with effective prompt engineering fine tuning and AI safety measures Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionFind out what makes Azure OpenAI a robust platform for building AI driven solutions that can transform how businesses operate Written by seasoned experts from Microsoft this book will guide you in understanding Azure OpenAI from fundamentals through to advanced concepts and best practices The book begins with an introduction to large language models LLMs and the Azure OpenAI Service detailing how to access use and optimize its models You ll learn how to design and implement AI driven solutions such as question answering systems contact center analytics and GPT powered search applications Additionally the chapters walk you through advanced concepts including embeddings fine tuning models prompt engineering and building custom AI applications using LangChain and Semantic Kernel You ll explore real world use cases such as QnA systems document summarizers and SQLGPT for database querying as well as gain insights into securing and operationalizing these solutions in enterprises By the end of this book you ll be ready to design develop and deploy scalable AI solutions ensuring business success through intelligent automation and data driven insights What you will learn Understand the concept of large language models and their capabilities Interact with different models in Azure OpenAI using APIs or web interfaces Use content filters and mitigations to prevent harmful content generation Develop solutions with Azure OpenAI for content generation summarization semantic search NLU code and image generation and analysis Integrate Azure OpenAI with other Azure Cognitive services for enhanced functionality Apply best practices for data privacy security

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Code samples and figures from the book are available for downloading In essence the book provides a modest bridge between the worlds of Python programming and AI aiming to equip readers with the knowledge and skills to navigate both domains confidently 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 CSS3 and SVG with GPT-4 Oswald CAMPESATO, 2024-07-22 This book is designed to equip you with the knowledge and skills necessary to navigate the intersection of web development and artificial intelligence AI It covers various aspects of modern web development and AI technologies with a particular emphasis on Generative AI CSS3 SVG JavaScript HTML and popular web features like 3D animations and gradients By exploring these topics readers will gain a deeper understanding of how AI can enhance web development processes and how to leverage AI models like GPT 4 to streamline development workflows Web developers UI UX designers and software engineers seeking to blend traditional web development skills with the latest AI technologies will find this book to be a valuable resource

Prompt Engineering in Marketing Analytics Md Raihanul Islam,2025-08-16 This book is for the marketing professional the strategist the analyst the content creator and the campaign manager who stands at this new frontier It is a comprehensive guide to the art and science of prompt engineering the discipline of crafting precise context rich instructions to guide Large Language Models LLMs toward generating insightful accurate and strategically aligned outputs We will journey from the foundational principles of a well crafted prompt to the advanced systematic methodologies that can transform an LLM from a clever toy into a powerful analytical partner This is not a technical manual for data scientists but a strategic playbook for marketers It argues that prompt engineering is no longer a niche skill but a core competency as fundamental to modern marketing as understanding SEO or social media analytics Through in depth analysis practical frameworks and real world case studies this book will equip you with the knowledge to bridge the growing AI skills gap You will learn not just what to ask an AI but how to ask it in a way that yields strategic value turning prompts into profits

GPT-4 for Developers Oswald Campesato,2023-12-15 Extensive Python 3 x code samples generated using ChatGPT and GPT 4 covering diverse programming tasks and challenges Comprehensive exploration of data visualization techniques using

popular Python libraries such as Matplotlib and Seaborn This resource is designed to bridge the gap between theoretical understanding and practical application making it a useful tool for software developers data scientists AI researchers and tech enthusiasts interested in harnessing the power of GPT 4 in Python environments The book contains an assortment of Python 3 x code samples that were generated by ChatGPT and GPT 4 Chapter 1 provides an overview of ChatGPT and GPT 4 followed by a chapter which contains Python 3 x code samples for solving various programming tasks in Python Chapter 3 contains code samples for data visualization and Chapter 4 contains code samples for linear regression The final chapter covers visualization with Gen AI Generative AI and DALL E Companion files with source code and figures are available for Data Analysis with LLMs Immanuel Trummer, 2025-05-13 Speed up common data science tasks with AI downloading 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 Transformers for Natural Language Processing and Computer Vision Denis Rothman, 2024-02-29 The definitive guide to LLMs from architectures pretraining and

fine tuning to Retrieval Augmented Generation RAG multimodal AI risk mitigation and practical implementations with ChatGPT Hugging Face and Vertex AI Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Compare and contrast 20 models including GPT BERT and Llama and multiple platforms and libraries to find the right solution for your project Apply RAG with LLMs using customized texts and embeddings Mitigate LLM risks such as hallucinations using moderation models and knowledge bases Book DescriptionTransformers for Natural Language Processing and Computer Vision Third Edition explores Large Language Model LLM architectures practical applications and popular platforms Hugging Face OpenAI and Google Vertex AI used for Natural Language Processing NLP and Computer Vision CV The book guides you through a range of transformer architectures from foundation models and generative AI You ll pretrain and fine tune LLMs and work through different use cases from summarization to question answering systems leveraging embedding based search You ll also implement Retrieval Augmented Generation RAG to enhance accuracy and gain greater control over your LLM outputs Additionally you ll understand common LLM risks such as hallucinations memorization and privacy issues and implement mitigation strategies using moderation models alongside rule based systems and knowledge integration Dive into generative vision transformers and multimodal architectures and build practical applications such as image and video classification Go further and combine different models and platforms to build AI solutions and explore AI agent capabilities This book provides you with an understanding of transformer architectures including strategies for pretraining fine tuning and LLM best practices What you will learn Breakdown and understand the architectures of the Transformer BERT GPT T5 PaLM ViT CLIP and DALL E Fine tune BERT GPT and PaLM models Learn about different tokenizers and the best practices for preprocessing language data Pretrain a RoBERTa model from scratch Implement retrieval augmented generation and rules bases to mitigate hallucinations Visualize transformer model activity for deeper insights using BertViz LIME and SHAP Go in depth into vision transformers with CLIP DALL E and GPT Who this book is for This book is ideal for NLP and CV engineers data scientists machine learning practitioners software developers and technical leaders looking to advance their expertise in LLMs and generative AI or explore latest industry trends Familiarity with Python and basic machine learning concepts will help you fully understand the use cases and code examples However hands on examples involving LLM user interfaces prompt engineering and no code model building ensure this book remains accessible to anyone curious about the AI revolution Large Language Models Oswald Campesato, 2024-10-02 This book begins with an overview of the Generative AI landscape distinguishing it from conversational AI and shedding light on the roles of key players like DeepMind and OpenAI It then reviews the intricacies of ChatGPT GPT 4 and Gemini examining their capabilities strengths and competitors Readers will also gain insights into the BERT family of LLMs including ALBERT Distilbert and XLNet and how these models have revolutionized natural language processing Further the book covers prompt engineering techniques essential for optimizing the outputs of AI models and addresses the challenges of working

with LLMs including the phenomenon of hallucinations and the nuances of fine tuning these advanced models Designed for software developers AI researchers and technology enthusiasts with a foundational understanding of AI this book offers both theoretical insights and practical code examples in Python Companion files with code figures and datasets are available for **Populism, Artificial Intelligence and Law** David Grant, 2024-07-12 Political systems downloading from the publisher across much of the West are now subject to populist disruption which often takes an anti Constitutional form This interdisciplinary book argues that the current analysis of anti Constitutional populism while often astute is focused far too narrowly It is held here that due to an obscured complex of dynamics that has shaped the history of the West since its inception and which remains active today we do not understand the present This complex not only explains the current disruptions across the fields of contemporary religion politics economics and emerging artificial intelligence but also how these disruptions derive each from originary sources This work thereby explains not only the manner in which this complex has functioned across historical time but also why it is that its inherent unresolvable flaws have triggered the shifts between these key fields as well as the intractability of these present disruptions It is this flawed complex of factors that has led to current conflicts about abortion reform political populism the failure of neoliberalism and the imminent quantum shift in generative artificial intelligence It is argued that in this law is heavily implicated especially at the constitutional level Presenting a forensic examination of the root causes of all these disruptions the study provides a toolbox of ideas with which to confront these challenges This is a book of originality and significance which will make fascinating reading for academics and researchers working in the areas of Socio legal Studies Legal Philosophy Political Science Theology AI and Neuroscience The Open Access version of this book available at http www taylorfrancis com has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license Python 3 and Machine Learning Using <u>ChatGPT/GPT-4</u> Oswald Campesato, 2024-06-17 This book is designed to bridge the gap between theoretical knowledge and practical application in the fields of Python programming machine learning and the innovative use of ChatGPT 4 in data science The book is structured to facilitate a deep understanding of several core topics It begins with a detailed introduction to Pandas a cornerstone Python library for data manipulation and analysis Next it explores a variety of machine learning classifiers from kNN to SVMs In later chapters it discusses the capabilities of GPT 4 and how its application enhances traditional linear regression analysis Finally the book covers the innovative use of ChatGPT in data visualization This segment focuses on how AI can transform data into compelling visual stories making complex results accessible and understandable It includes material on AI apps GANs and DALL E Companion files are available for downloading with code and figures from the Künstliche Intelligenz in betrieblichen Funktionen Annette Miller, Marianne Blumentritt, Wolfgang Bohlen, Thomas text Metzner, Robert Rossberger, Doreen Schwinger, 2025-09-26 Zwar nutzen bereits viele Besch ftigten KI Tools in ihrer t glichen Arbeit auch ohne dass diese von ihren Firmen bereitgestellt werden eine konsistente Unternehmens KI Strategie ist bislang

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Data Science and Emerging Technologies Yap Bee Wah, Dhiya Al-Jumeily OBE, Michael W. Berry, 2024-04-26 The book presents selected papers from International Conference on Data Science and Emerging Technologies DaSET 2023 held online at UNITAR International University Malaysia during December 4 5 2023 This book presents current research and applications of data science and emerging technologies. The topics covered are artificial intelligence big data technology machine and deep learning data mining optimization algorithms blockchain Internet of Things IoT cloud computing computer vision cybersecurity augmented and virtual reality cryptography and statistical learning Generative Deep Learning David Foster, 2022-06-28 Generative AI is the hottest topic in tech This practical book teaches machine learning engineers and data scientists how to use TensorFlow and Keras to create impressive generative deep learning models from scratch including variational autoencoders VAEs generative adversarial networks GANs Transformers normalizing flows energy based models and denoising diffusion models. The book starts with the basics of deep learning and progresses to cutting edge architectures Through tips and tricks you ll understand how to make your models learn more efficiently and become more creative Discover how VAEs can change facial expressions in photos Train GANs to generate images based on your own dataset Build diffusion models to produce new varieties of flowers Train your own GPT for text generation Learn how large language models like ChatGPT are trained Explore state of the art architectures such as StyleGAN2 and ViT VQGAN Compose polyphonic music using Transformers and MuseGAN Understand how generative world models can solve reinforcement

learning tasks Dive into multimodal models such as DALL E 2 Imagen and Stable Diffusion This book also explores the future of generative AI and how individuals and companies can proactively begin to leverage this remarkable new technology to create competitive advantage MASTER CHATGPT IN 3 DAYS Pablo Tapias Cantos, 2025-01-02 Unlock the Secrets of ChatGPT in Just 3 Days Your Ultimate Path to Thriving in the Digital World Have you ever dreamed of tapping into the full potential of ChatGPT Are you curious if you can spot AI generated text and are eager to leverage this incredible tool for a competitive edge Look no further This exhilarating guide will not only help you master ChatGPT in record time but it will also answer all your burning questions Accelerate your productivity creativity and digital skills in just 3 action packed days Uncover Hidden Tricks Learn the secret features that will transform you into a ChatGPT expert Revolutionize Your Work and Studies Discover innovative ways to apply this powerful tool in your projects that will push your limits and redefine what s possible Real World Applications Dive into practical examples that show you how to seamlessly integrate ChatGPT into your daily life optimize your tasks and make this technology an indispensable ally But wait there s more By snagging this book today you ll also enjoy lifetime free updates keeping you at the forefront of the latest advancements in artificial intelligence Don't miss out on this chance to join the elite group of individuals who truly unlock ChatGPT's potential Time is of the essence With this dynamic guide in your hands you ll be the first to exploit the insights that others will discover too late Embark on your thrilling journey with ChatGPT and unleash its power like never before

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