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Generating Creative Images With DALL-E 3 Holly Picano, 2024-03-29 Learn to craft fine art prints NFTs and captivating covers for books and magazines with Dall E 3 and ChatGPT Key Features Explore Dall E 3 s diverse practical applications across art design education and beyond Master AI generated art creation through step by step tutorials ranging from basic to advanced projects Enhance your prompt crafting skills with the exclusive prompt cheat sheet Purchase of the print or Kindle book includes a free PDF eBook Book Description Unveil the extraordinary capabilities of the groundbreaking AI model DALL E 3 as it transforms text prompts into accurate images This book addresses the challenge of creating meaningful images by writing prompts guiding you step by step through creating stunning visual art regardless of your skill level Prepare to delve deep into the inner workings of DALL E 3 s architecture and training process With clear explanations practical tutorials and real world examples that can be easily applied you ll unlock secrets to creating awe inspiring AI generated art from fine art prints to digital designs This book provides comprehensive insights into various lens options camera angles lighting techniques and art movements helping you integrate AI capabilities with your artistic skills You ll also learn to create NFTs that can be monetized and gain invaluable insights into designing compelling covers all within the ethical boundaries of AI generated art And with the invaluable prompt cheat sheet by your side you ll hone your skills in formulating captivating prompts for diverse purposes By the end of this book you ll have learned how to produce generative AI art at a rapid pace and relatively low cost and push the boundaries of imagination with DALL E 3 What you will learn Master DALL E 3 s architecture and training methods Create fine prints and other AI generated art with precision Seamlessly blend AI with traditional artistry Address ethical dilemmas in AI art Explore the future of digital creativity Implement practical optimization techniques for your artistic endeavors Who this book is for Whether you re an artist looking to integrate AI into your work a designer seeking new creative horizons a tech enthusiast intrigued by the intersection of art and artificial intelligence an educator in the fields of art and technology or a curious individual venturing into AI generated art this book is for you For anyone interested in the innovative fusion of creativity and technology the DALL E 3 Guide to AI Artistry offers invaluable insights and practical skills that you can apply right away *SQL Server 2025 Unveiled* Bob Ward, 2025-10-15 Unveil the data platform of the future with SQL Server 2025 guided by one of its key architects With built in AI for application development and advanced analytics powered by Microsoft Fabric SQL Server 2025 empowers you to innovate securely and confidently This book shows you how Author Bob Ward Principal Architect for the Microsoft Azure Data team shares exclusive insights drawn from over three decades at Microsoft Having worked on every version of SQL Server since OS 2 1 1 Ward brings unmatched expertise and practical guidance to help you navigate this transformative release Ward covers everything from setup and upgrades to advanced features in performance high availability and security He also highlights what makes this the most developer friendly release in a decade support for JSON RegEx REST APIs and

event streaming Most critically Ward explores SQL Server 2025 s advanced scalable AI integrations showing you how to build AI powered applications deeply integrated with the SQL engine and elevate your analytics to the next level But innovation doesn t come at the cost of safety this release is built on a foundation of enterprise grade security helping you adopt AI safely and responsibly You control which models to use how they interact with your data and where they run from ground to cloud or integrated with Microsoft Fabric With built in features like Row Level Security RLS Transparent Data Encryption TDE Dynamic Data Masking and SQL Server Auditing your data remains protected at every layer The AI age is here Make sure your SQL Server databases are ready and built for secure scalable innovation What You Will Learn if supportLists endif Understand why SQL Server 2025 is a unique new release if supportLists endif Grasp the fundamentals of AI to leverage AI with your data using the industry proven security and scale of SQL Server if supportLists endif Utilize AI models of your choice services and frameworks to build new AI applications if supportLists endif Explore new developer features such as JSON Regular Expressions REST API and Change Event Streaming if supportLists endif Discover SQL Server 2025 s powerful new engine capabilities to increase application concurrency if supportLists endif Examine new high availability features to enhance uptime and diagnose complex HADR configurations if supportLists endif Use new query processing capabilities to extend the performance of your application if supportLists endif Connect SQL Server to Azure with Arc for advanced management and security capabilities if supportLists endif Secure and govern your data using Microsoft Entra if supportLists endif Achieve near real time analytics with the unified data platform Microsoft Fabric if supportLists endif Integrate AI capabilities with SQL Server for enterprise AI if supportLists endif Leverage new tools such as SQL Server Management Studio and Copilot experiences to assist your SQL Server journey Who This Book Is For The SQL Server community including DBAs architects and developers eager to stay ahead with the latest advancements in SQL Server 2025 and those interested in the intersection of AI and data particularly how artificial intelligence AI can be seamlessly integrated with SQL Server to unlock deeper insights and smarter solutions

Developing Apps with GPT-4 and ChatGPT Olivier Caelen,Marie-Alice Blete,2023-08-29 This minibook is a comprehensive guide for Python developers who want to learn how to build applications with large language models Authors Olivier Caelen and Marie Alice Blete cover the main features and benefits of GPT 4 and ChatGPT and explain how they work You ll also get a step by step guide for developing applications using the GPT 4 and ChatGPT Python library including text generation Q A and content summarization tools Written in clear and concise language Developing Apps with GPT 4 and ChatGPT includes easy to follow examples to help you understand and apply the concepts to your projects Python code examples are available in a GitHub repository and the book includes a glossary of key terms Ready to harness the power of large language models in your applications This book is a must You ll learn The fundamentals and benefits of ChatGPT and GPT 4 and how they work How to integrate these models into Python based applications for NLP tasks How to develop applications using GPT 4 or ChatGPT APIs in Python for text generation

question answering and content summarization among other tasks Advanced GPT topics including prompt engineering fine tuning models for specific tasks plug ins LangChain and more [Programming Large Language Models with Azure Open AI](#) Francesco Esposito,2024-04-03 Use LLMs to build better business software applications Autonomously communicate with users and optimize business tasks with applications built to make the interaction between humans and computers smooth and natural Artificial Intelligence expert Francesco Esposito illustrates several scenarios for which a LLM is effective crafting sophisticated business solutions shortening the gap between humans and software equipped machines and building powerful reasoning engines Insight into prompting and conversational programming with specific techniques for patterns and frameworks unlock how natural language can also lead to a new advanced approach to coding Concrete end to end demonstrations featuring Python and ASP NET Core showcase versatile patterns of interaction between existing processes APIs data and human input Artificial Intelligence expert Francesco Esposito helps you Understand the history of large language models and conversational programming Apply prompting as a new way of coding Learn core prompting techniques and fundamental use cases Engineer advanced prompts including connecting LLMs to data and function calling to build reasoning engines Use natural language in code to define workflows and orchestrate existing APIs Master external LLM frameworks Evaluate responsible AI security privacy and accuracy concerns Explore the AI regulatory landscape Build and implement a personal assistant Apply a retrieval augmented generation RAG pattern to formulate responses based on a knowledge base Construct a conversational user interface For IT Professionals and Consultants For software professionals architects lead developers programmers and Machine Learning enthusiasts For anyone else interested in natural language processing or real world applications of human like language in software

Building Business-Ready Generative AI Systems Denis Rothman,2025-07-25 Supercharge your business with context aware AI controllers adaptive agents multimodal reasoning functionality neuroscientific memory systems and flexible handler mechanisms that integrate the emerging generative AI models Get with your book PDF copy AI Assistant and Next Gen Reader free Key Features Build an adaptive context aware AI controller with advanced memory strategies Enhance GenAISys with multi domain multimodal reasoning capabilities and Chain of Thought CoT Seamlessly integrate cutting edge OpenAI and DeepSeek models as you see fit Book DescriptionStandalone LLMs no longer deliver sufficient business value on their own This guide moves beyond basic chatbots showing you how to build agentic ChatGPT grade systems capable of sophisticated semantic and sentiment analysis powered by context engineering You ll design AI controller architectures with multi user memory retention to dynamically adapt your system to diverse user and system inputs You ll architect a Retrieval Augmented Generation system with Pinecone to combine instruction driven scenarios Through context engineering you ll minimize token usage maximize response quality and create systems that reason across complex tasks with precision You ll enhance your system s intelligence with multimodal capabilities image generation voice interactions and machine driven reasoning leveraging Chain of Thought and

context chaining to address cross domain automation challenges You ll also integrate OpenAI s suite and DeepSeek R1 without disrupting your existing GenAISys ecosystem With context engineering as the backbone every step becomes a deliberate act of shaping model behavior Your GenAISys will apply neuroscience inspired insights to marketing strategies predict human mobility integrate smoothly into human workflows and connect to live external data all wrapped in a polished investor ready interface What you will learn Implement an AI controller with a conversation AI agent and orchestrator at its core Build contextual awareness with short term long term and cross session memory Design cross domain automation with multimodal reasoning image generation and voice features Expand a CoT agent by integrating consumer memory understanding Integrate cutting edge models of your choice without disrupting your existing GenAISys Connect to real time external data while blocking security breaches Who this book is for This book is for AI and Machine Learning Engineers seeking to enhance their understanding of Generative AI and its enterprise applications It will particularly benefit those interested in building AI agents creating advanced orchestration systems and leveraging AI for automation in marketing production and logistics Software architects and enterprise developers looking to build scalable AI driven systems will also find immense value in this guide No prior superintelligence experience is necessary but familiarity with AI concepts is recommended

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 know it all 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

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 Description Transformers 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

GPT-3 Sandra Kublik, Shubham Saboo, 2022-07-11 GPT 3 NLP with LLMs is a unique pragmatic take on Generative Pre trained Transformer 3 the famous AI language model launched by OpenAI in 2020 This model is capable of tackling a wide array of tasks like conversation text completion and even coding with stunningly good performance Since its launch the API has powered a staggering number of applications that have now grown into full fledged startups generating business value This book will be a deep dive into what GPT 3 is why it is important what it can do what has already been done with it how to get access to it and how one can build a GPT 3 powered product from scratch This book is for anyone who wants to understand the scope and nature of GPT 3 The book will evaluate the GPT 3 API from multiple perspectives and discuss the various components of the new burgeoning economy enabled by GPT 3 This book will look at the influence of GPT 3 on important AI trends like creator economy no code and Artificial General Intelligence and will equip the readers to structure their imaginative ideas and convert them from mere concepts to reality *Knowledge Graphs and LLMs in Action*

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

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

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

c't Working with AI c't-Redaktion, 2024-01-24 The special issue of c't KI Praxis provides tests and practical instructions for working with chatbots It explains why language models make mistakes and how they can be minimised This not only helps when you send questions and orders to one of the chatbots offered online If you do not want to or are not allowed to use the cloud services for data protection reasons for example you can also set up your own voice AI The c't editorial team explains where to find a suitable voice model how to host it locally and which service providers can host it The fact that generative AI is becoming increasingly productive harbours both opportunities and risks Suitable rules for the use of AI in schools training and at work help to exploit

opportunities and minimise risks **OpenAI's Sora** StoryBuddiesPlay,2024-06-07 Unveiling the Future of Video Creation A Comprehensive Look at AI Generated Video with The Power of Text to Video Are you ready to transform video creation This groundbreaking book dives deep into the exciting world of AI generated video exploring its potential to revolutionize the way we tell stories and share ideas Introducing Sora hypothetical model Imagine a powerful AI model that can translate your simple text descriptions into captivating and visually stunning videos This book delves into the inner workings of Sora explaining how it uses text to video generation to create everything from educational explainers to heart wrenching narratives Go Beyond the Basics This comprehensive guide isn't just about the what it's about the how Learn the art of crafting effective text prompts the key to unlocking Sora's full potential Explore practical tips and techniques to refine your prompts and generate high quality videos that resonate with your audience The Power of AI in Your Hands Whether you're an educator marketer filmmaker or simply someone with a story to tell this book equips you with the knowledge and tools to leverage the power of AI video creation Discover how Sora can transform various industries Education Create personalized and engaging learning experiences for students of all ages Marketing Business Craft compelling video content that captures audience attention and drives results Film Animation Streamline pre production processes and explore new creative possibilities A Responsible Future This book doesn't shy away from the ethical considerations surrounding AI generated video Explore best practices for responsible use and the importance of transparency in a world where AI is blurring the lines between reality and imagination Look to the Horizon Peer into the exciting future of AI video creation Imagine interactive video experiences multilingual capabilities and a seamless integration with other AI tools This book paves the way for understanding the immense potential that lies ahead Get Started Today This book serves as your practical guide to using Sora hypothetical model Learn how to access the platform navigate its features and craft effective prompts that bring your vision to life The Power of Text to Video is your one stop resource for understanding and harnessing the transformative power of AI video creation Embrace the future of storytelling one video at a time Mastering Large Language Models with Python: Unleash the Power of Advanced Natural Language Processing for Enterprise Innovation and Efficiency Using Large Language Models (LLMs) with Python Raj Arun,2024-04-12 A Comprehensive Guide to Leverage Generative AI in the Modern Enterprise Key Features Gain a comprehensive understanding of LLMs within the framework of Generative AI from foundational concepts to advanced applications Dive into practical exercises and real world applications accompanied by detailed code walkthroughs in Python Explore LLMOps with a dedicated focus on ensuring trustworthy AI and best practices for deploying managing and maintaining LLMs in enterprise settings Book Description Mastering Large Language Models with Python is an indispensable resource that offers a comprehensive exploration of Large Language Models LLMs providing the essential knowledge to leverage these transformative AI models effectively From unraveling the intricacies of LLM architecture to practical applications like code generation and AI driven recommendation systems readers will gain valuable

insights into implementing LLMs in diverse projects Covering both open source and proprietary LLMs the book delves into foundational concepts and advanced techniques empowering professionals to harness the full potential of these models Detailed discussions on quantization techniques for efficient deployment operational strategies with LLMOps and ethical considerations ensure a well rounded understanding of LLM implementation Through real world case studies code snippets and practical examples readers will navigate the complexities of LLMs with confidence paving the way for innovative solutions and organizational growth Whether you seek to deepen your understanding drive impactful applications or lead AI driven initiatives this book equips you with the tools and insights needed to excel in the dynamic landscape of artificial intelligence What you will learn In depth study of LLM architecture and its versatile applications across industries Harness open source and proprietary LLMs to craft innovative solutions Implement LLM APIs for a wide range of tasks spanning natural language processing audio analysis and visual recognition Optimize LLM deployment through techniques such as quantization and operational strategies like LLMOps ensuring efficient and scalable model usage

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Advanced Learning Analytics Methods Mohammed Saqr, Sonsoles López-Pernas, 2025-10-25

This is an open access book This comprehensive and timely methodological book introduces several novel topics under the overarching sections of advanced learning analytics LA artificial intelligence AI precision education and complex systems These topics are presented using accessible language beginning with introductory chapters that cover the fundamentals of each section followed by step by step tutorials featuring code and datasets for various methods within each area Although the title refers to advanced LA the book is written for the broader educational research community and is of interest to quantitative researchers from diverse backgrounds The first section focuses on Explainable AI and machine learning ML with an introduction to the methods their applications and tutorials The second section outlines the foundational concepts of LLMs their potential applications and related methodologies with a tutorial on using LLMs in various analytical tasks The third section focuses on complex systems which have become integral to many disciplines and have enabled breakthroughs in modeling intractable problems Here three chapters cover Transition Network Analysis TNA which fills a critical gap in modeling the temporal unfolding of learning processes over time from a complex systems perspective The final section

addresses precision education with a particular emphasis on person centered and person specific idiographic methodologies

THE EVOLUTION OF CHATGPT: FROM TEXT TO VOICE IN VIRTUAL WORDS Virendra Pal Singh, Durgesh Kumar, Pankaj Sharma, Dr. Javed Ahmad, Mr. Gaurav Kumar Rajput, 2023-12-12

ChatGPT is an artificial intelligence AI based chatbot that makes use of natural language processing in order to provide conversational discourse that sounds and feels like it was done with a real person. This is accomplished by producing conversational discourse in many languages including English, Japanese and Korean. ChatGPT is a cloud based application that may be accessed using the Azure cloud platform. It was created by Microsoft Research. The language model is able to provide responses to inquiries as well as generate a variety of written material such as emails, posts on social networking sites and posts on platforms that enable users to write in the format of an essay. On November 30, 2022, OpenAI developed ChatGPT, a big language model based chatbot, and made it available to the public. Only the beta version of ChatGPT was first made accessible to users. Through the utilization of this feature, users are provided with the capacity to enhance and lead a discussion in the direction of a desired duration, structure, style, level of information and language. This ability is made available to users. What we refer to as the Chat Generative Pre-trained Transformer is referred to as ChatGPT in its shorter version. In order to determine the context of the dialogue at each level of the discussion, a method known as prompt engineering is utilized. This method involves looking at the prompts and responses that came before it in the conversation. ChatGPT is built on either the GPT-3.5 or the GPT-4 model, both of which are a part of OpenAI's proprietary line of generative pre-trained transformer (GPT) models. Both models were used in the construction of ChatGPT. Conversational interactions are one of the primary focuses of ChatGPT's design. The Google developed transformer architecture serves as the foundation for these models, which have been modified for use in conversational applications by employing a mix of supervised learning and reinforcement learning strategies. These methods were utilized in order to get a higher level of precision with the models. The research preview version of ChatGPT was made accessible to the general public for the very first time as a free service.

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.

Software Testing with Generative AI Mark Winteringham, 2024-12-31 Speed up your testing and deliver exceptional product quality with the power of AI tools The more you test the more you learn about your software Software Testing with Generative AI shows you how you can expand automate and enhance your testing with Large Language Model LLM based AI Your team will soon be delivering higher quality tests all in less time In Software Testing with Generative AI you ll learn how to Spot opportunities to improve test quality with AI Construct test automation with the support of AI tools Formulate new ideas during exploratory testing using AI tools Use AI tools to aid the design process of new features Improve the testability of a context with the help of AI tools Maximize your output with prompt engineering Create custom LLMs for your business s specific needs Software Testing with Generative AI is full of hype free advice for supporting your software testing with AI In it you ll find strategies from bestselling author Mark Winteringham to generate synthetic testing data implement automation and even augment and improve your test design with AI Foreword by Nicola Martin About the technology There s a simple rule in software testing the more you test the more you learn And as any testing pro will tell you good testing takes time By integrating large language models LLMs and generative AI into your process you can dramatically automate and enhance testing improve quality and coverage and deliver more meaningful results About the book Software Testing with Generative AI shows you how AI can elevate every aspect of testing automation test data management test scripting exploratory testing and more Learn how to use AI coding tools like Copilot to guide test driven development get relevant feedback about your applications from ChatGPT and use the OpenAI API to integrate AI into your data generation You ll soon have higher quality testing that takes up less of your time What s inside Improve test quality and coverage AI powered test automation Build agents that act as testing assistants About the reader For developers testers and quality engineers About the author Mark Winteringham is an experienced software tester who teaches many aspects of software testing He is the author of Testing Web APIs The technical editor on this book was Robert Walsh Table of Contents Part 1 1 Enhancing testing with large language models 2 Large language models and prompt engineering 3 Artificial intelligence automation and testing Part 2 4 AI assisted testing for developers 5 Test planning with AI support 6 Rapid data creation using AI 7 Accelerating and improving UI automation using AI 8 Assisting exploratory testing with artificial intelligence 9 AI agents as testing assistants Part 3 10 Introducing customized LLMs 11 Contextualizing prompts with retrieval augmented generation 12 Fine tuning LLMs with business domain knowledge Appendix A Setting up and using ChatGPT Appendix B Setting up and using GitHub Copilot Appendix C Exploratory testing notes

Mathematikdidaktische Impulse aus Vergangenheit und Gegenwart

Gabriella Ambrus, Johann Sjuts, Éva Vásárhelyi, Das vorliegende Buch widmet sich traditionellen und aktuellen Themen mit Beiträgen, die einen Einblick in historische und heutige Entwicklungen der Mathematikdidaktik geben Sie verdeutlichen den immerwährenden Wandel der zumeist durch Fortschritt aber auch gelegentlich durch Rückschritt geprägt ist Die jeweiligen Analysen sind bestimmt durch fokussierte und komparative Zugriffe sowie durch kritische und evaluative Betrachtungen Im

Zentrum stehen Fragen zur Tauglichkeit zum Nutzen und zur Wirksamkeit dessen was beim Lehren und Lernen von Mathematik geschieht Was ist geeignet was ist erprobt Was ist verlässlich was ist aussichtsreich Was ist geeignet was ist förderlich Die Beiträge beinhalten geschichtliche Analysen zum Mathematiklernen vergleichende Untersuchungen von Schulbüchern im Fach Mathematik sowie auf ihre Zielsetzung hin betrachtete mathematikdidaktische Konzepte Sie thematisieren aber auch jüngere Trends im Mathematikunterricht die methodische mediale und technologische Fragestellungen betreffen Insgesamt kommen sowohl Konzeptionen zur Ausbildung angehender Lehrkräfte in Mathematik als auch Innovationen zur Gestaltung mathematischer Lehr-Lern-Prozesse von Kindern und Jugendlichen zur Sprache Die Beiträge bieten Aufschlüsse abgestützte Entscheidungen für die Zukunft zu treffen Mathematik ist in Ungarn traditionell von hoher kultureller und wissenschaftlicher Bedeutung Intention der Buchreihe Mathematiklehren und lernen in Ungarn ist es die beispielgebende Rolle des Landes und den inspirativen Austausch über Grenzen hinweg zum Ausdruck zu bringen Ganz in diesem Sinne haben sich etliche Autorinnen und Autoren aus mehreren Ländern und vielfach im Team an diesem Band beteiligt

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