

```

}
}
Copy

```

Azure gpt-4o Output

191 tokens



```

import { pgTable, serial, varchar, timestamp } from 'drizzle-orm/pg-core';

export const todosTable = pgTable('todos', {
  id: serial('id').primaryKey(),
  text: varchar('text', { length: 10 }).default(''),
  created_at: timestamp('created_at').defaultNow()
});

Copy

```

```

const todos = await db
  .select({
    id: todosTable.id,
    text: todosTable.text,
    created_at: todosTable.created_at
  })
  .from(todosTable)
  .limit(10)
  .orderBy(searchParams.asc ? sql`${todosTable.id} ASC` :
    sql`${todosTable.id} DESC`);

...

(todos.map(todo => ({
  id: todo.id,
  text: todo.text,
  created_at: new
    Date(todo.created_at.toLocalString()) + '...'
})))
Copy

```

```

}
}
Copy

```

Azure gpt-35-turbo Output

73 tokens



db.ts

```

import { timestamp } from 'drizzle-orm/pg-core';

export const todosTable = pgTable('todos', {
  id: serial('id').primaryKey(),
  text: varchar('text', { length: 10 }).default(''),
  created_at:
    timestamp('created_at').notNull().defaultCurrentTimestamp()
});

Copy

```

Total estimate tokens for the conversation: 858. Max context window limit from manual configuration: 2000.

Follow-up with Azure gpt-35-turbo on the same task



Send Follow-up Prompt

Save Conversation to File

Press **Ctrl+C** to stop streaming. Note that this does not stop the actual API call, you will still be charged for the whole response.

Scroll to Output x=0

Scroll to End

Close

Openai Compare Setup

Raj Arun

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the name bar.

Openai Compare Setup:

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 Table of Contents 1 The Basics of Large Language Models and Their Applications 2 Demystifying Open Source Large Language Models 3 Closed Source Large Language Models 4 LLM APIs for Various Large Language Model Tasks 5 Integrating Cohere API in Google Sheets 6 Dynamic Movie Recommendation Engine Using LLMs 7 Document and Web based QA Bots with Large Language Models 8 LLM Quantization Techniques and Implementation 9 Fine tuning and Evaluation of LLMs 10 Recipes for Fine Tuning and Evaluating LLMs 11 LLMOps Operationalizing LLMs at Scale 12 Implementing LLMOps in Practice Using MLflow on Databricks 13 Mastering the Art of Prompt Engineering 14 Prompt Engineering Essentials and Design Patterns 15 Ethical Considerations and Regulatory Frameworks for LLMs 16 Towards Trustworthy Generative AI A Novel Framework Inspired by Symbolic Reasoning Index

ChatGPT for Conversational AI and Chatbots Adrian Thompson,2024-07-30 Explore ChatGPT technologies to create

state of the art chatbots and voice assistants and prepare to lead the AI revolution

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What you will learn Gain a solid understanding of ChatGPT and its capabilities and limitations Understand how to use ChatGPT for conversation design Discover how to use advanced LangChain techniques such as prompting memory agents chains vector stores and tools Create a ChatGPT chatbot that can answer questions about your own data Develop a chatbot powered by ChatGPT API Explore the future of conversational AI LLMs and ChatGPT alternatives

Who this book is for This book is for tech savvy readers conversational AI practitioners engineers product owners business analysts and entrepreneurs wanting to integrate ChatGPT into conversational experiences and explore the possibilities of this game changing technology Anyone curious about using internal data with ChatGPT and looking to stay up to date with the developments in large language models will also find this book helpful

Some expertise in coding and standard web design concepts would be useful along with familiarity with conversational AI terminology though not essential

[Web Engineering](#)

Kostas Stefanidis,Kari Systä,Maristella Matera,Sebastian Heil,Haridimos Kondylakis,Elisa Quintarelli,2024-06-15 This book constitutes the proceedings of the 24th International Conference ICWE 2024 held in Tampere Finland during June 17 20 2024 The 16 full papers and 8 short papers included in this volume were carefully reviewed and selected from 66 submissions This volume includes all the accepted papers across various conference tracks The ICWE 2024 theme Ethical and Human Centric Web Engineering Balancing Innovation and Responsibility invited discussions on creating Web technologies that are not only innovative but also ethical transparent privacy focused trustworthy and inclusive putting human needs and well being at the core

Machine Learning and Knowledge Discovery in Databases Ulf Brefeld,Elisa

Fromont, Andreas Hotho, Arno Knobbe, Marloes Maathuis, Céline Robardet, 2020-04-30 The three volume proceedings LNAI 11906 11908 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2019 held in Würzburg Germany in September 2019 The total of 130 regular papers presented in these volumes was carefully reviewed and selected from 733 submissions there are 10 papers in the demo track The contributions were organized in topical sections named as follows Part I pattern mining clustering anomaly and outlier detection and autoencoders dimensionality reduction and feature selection social networks and graphs decision trees interpretability and causality strings and streams privacy and security optimization Part II supervised learning multi label learning large scale learning deep learning probabilistic models natural language processing Part III reinforcement learning and bandits ranking applied data science computer vision and explanation applied data science healthcare applied data science e commerce finance and advertising applied data science rich data applied data science applications demo track

The Embodied Brain: Computational Mechanisms of Integrated Sensorimotor Interactions with a Dynamic Environment

Mario Senden, Judith Peters, Florian Röhrbein, Rainer Goebel, Gustavo Deco, 2020-07-31 **Lifelong and Continual Learning Dialogue Systems** Sahisnu Mazumder, Bing Liu, 2024-01-08 This book introduces the new paradigm of lifelong and continual learning dialogue systems to endow dialogue systems with the ability to learn continually by themselves through their own self initiated interactions with their users and the working environments The authors present the latest developments and techniques for building such continual learning dialogue systems The book explains how these developments allow systems to continuously learn new language expressions lexical and factual knowledge and conversational skills through interactions and dialogues Additionally the book covers techniques to acquire new training examples for learning new tasks during the conversation The book also reviews existing work on lifelong learning and discusses areas for future research **Business Process Management** Dirk Fahland, Chiara Ghidini, Jörg Becker, Marlon Dumas, 2020-09-04 This book constitutes the proceedings of the 18th International Conference on Business Process Management BPM 2020 held in Seville Spain in September 2020 The conference was held virtually due to the COVID 19 pandemic The 27 full papers included in this volume were carefully reviewed and selected from 125 submissions Two full keynote papers are also included The papers are organized in topical sections named foundations engineering and management Neural Information Processing Long Cheng, Andrew Chi Sing Leung, Seiichi Ozawa, 2018-12-03 The seven volume set of LNCS 11301 11307 constitutes the proceedings of the 25th International Conference on Neural Information Processing ICONIP 2018 held in Siem Reap Cambodia in December 2018 The 401 full papers presented were carefully reviewed and selected from 575 submissions The papers address the emerging topics of theoretical research empirical studies and applications of neural information processing techniques across different domains The third volume LNCS 11303 is organized in topical sections on embedded learning transfer learning reinforcement learning and other learning

approaches **Using Educational Robots to Enhance Learning** Dejian Liu, Ronghuai Huang, Ying Chen, Michael Agyemang Adarkwah, Xiangling Zhang, Xin Li, Junjie Zhang, Ting Da, 2024-09-28 This book presents advances in the research of educational robotics and showcases how they can be used to facilitate learning It summarizes popular and relevant terms and theories in educational robotics via analyzing one hundred influential journal articles in this field to provide readers background knowledge on the subject matter This book also guides readers in understanding how different types of robotics are utilized to promote learning among different types of students in different contexts and in different disciplines of study

Southern Reporter , 1918 Includes the decisions of the Supreme Courts of Alabama Florida Louisiana and Mississippi the Appellate Courts of Alabama and Sept 1928 Jan 1929 Jan Mar 1941 the Courts of Appeal of Louisiana *Mastering OpenAI for Enterprise* Sriram Subramanian, 2025-03-11 TAGLINE Master OpenAI and Unlock the Future of AI Powered Innovation KEY FEATURES In depth exploration of OpenAI tools models and enterprise use cases Hands on projects with extensive code samples for practical learning Real world case studies with ethical AI insights and best practices DESCRIPTION OpenAI is transforming industries with cutting edge AI models redefining how businesses operate innovate and compete Mastering OpenAI for Enterprise is your definitive guide to harnessing the power of OpenAI s groundbreaking technologies including GPT models DALL E and more Designed for AI engineers developers and business leaders this book offers an in depth understanding of OpenAI s tools and their real world applications in enterprise settings This hands on guide provides a structured learning path featuring practical code samples step by step implementations and industry case studies that bridge theory with practice Whether you re building intelligent chatbots leveraging AI for automation or exploring generative AI for creative solutions this book equips you with the knowledge and skills to seamlessly integrate OpenAI into your workflows Ethical AI development and responsible implementation are also key themes ensuring that innovation is balanced with accountability As AI continues to evolve at an unprecedented pace mastering OpenAI is no longer optional it s essential The future belongs to those who can effectively leverage these technologies Don t get left behind equip yourself with the expertise needed to stay ahead in the AI revolution WHAT WILL YOU LEARN Gain expertise in OpenAI s models APIs and enterprise applications Build intelligent chatbots and virtual assistants using ChatGPT Implement ethical AI practices for responsible and fair deployment Optimize and deploy OpenAI models for scalable business solutions Analyze real world case studies to drive AI powered innovation Leverage generative AI to automate enhance and transform workflows WHO IS THIS BOOK FOR This book is tailored for both beginners and experienced professionals looking to harness the power of OpenAI Ideal for application architects developers AI engineers CTOs and technology leaders it provides the essential knowledge and hands on skills needed to integrate OpenAI solutions into enterprise applications effectively TABLE OF CONTENTS 1 OpenAI Primer 2 Deep Learning Transformers and OpenAI Tools 3 Natural Language Processing with GPTs 4 Computer Vision with DALL E and CLIP 5 Building Chatbots with ChatGPT 6 AI Ethics and Responsible AI 7 Deploying OpenAI Models 8 Case

Studies and Best Practices Appendix Retrieval Augmented Generation RAG Index **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

Reinforcement Learning Abhishek Nandy, Manisha Biswas, 2017-12-07 Master reinforcement learning a popular area of machine learning starting with the basics discover how agents and the environment evolve and then gain a clear picture of how they are inter related You'll then work with theories related to reinforcement learning and see the concepts that build up the reinforcement learning process Reinforcement Learning discusses algorithm implementations important for reinforcement learning including Markov's Decision process and Semi Markov Decision process The next section shows you how to get started with Open AI before looking at Open AI Gym You'll then learn about Swarm Intelligence with Python in

terms of reinforcement learning The last part of the book starts with the TensorFlow environment and gives an outline of how reinforcement learning can be applied to TensorFlow There s also coverage of Keras a framework that can be used with reinforcement learning Finally you ll delve into Google s Deep Mind and see scenarios where reinforcement learning can be used What You ll Learn Absorb the core concepts of the reinforcement learning process Use advanced topics of deep learning and AI Work with Open AI Gym Open AI and Python Harness reinforcement learning with TensorFlow and Keras using Python Who This Book Is For Data scientists machine learning and deep learning professionals developers who want to adapt and learn reinforcement learning **The STEP-BY-STEP GUIDE FOR OPENAI AND AZURE OPENAI** AJIT DASH,

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 Chapter 2 Understanding AI and ML Delving into artificial intelligence and machine learning key components and the role of deep learning and neural networks Chapter 3 Introduction to NLP Basics of natural language processing techniques like tokenization and text classification and language model applications Chapter 4 Exploring GPT Models Overview of GPT models details of GPT 3 and GPT 4 their architecture capabilities and differences including GPT 3 5 Turbo and Codex Chapter 5 How Tokens Work Understanding tokens in GPT models their benefits and examples of successful Azure OpenAI implementations Chapter 6 Installation of OpenAI Setting up an OpenAI account exploring OpenAI product offerings understanding ChatGPT DALL E 2 and APIs Chapter 7 Installation of Azure OpenAI Installing and setting up Azure CLI creating an Azure account deploying models and utilizing Azure OpenAI playground and resources Chapter 8 GPT Model Architecture Unveiling the architecture of GPT models their history and learning more about LLM Chapter 9 Prompt Engineering Exploring prompt engineering in context shots text classification and various use cases Chapter 10 Content Filtering Examining content filtering goals methods and applications Chapter 11 Hallucination and Fine Tuning Understanding hallucination fine tuning and their best practices Chapter 12 Use Cases Installation instructions and examples

of interview question generators stock market recommendations and building chatbots *OpenAI Codex CLI & Agents SDK for Developers* Todd Chandler, 2025-11-03 OpenAI Codex CLI Agents SDK for Developers Create Test and Ship Agentic AI Systems that Boost Productivity and Reliability How do you move from experimenting with AI in the browser to building agents that live in your terminal follow your rules and scale across real production workflows This book gives developers AI engineers and DevOps professionals a direct path from local prototypes to fully governed testable and observable AI systems without guesswork or hype In a world where AI agents are redefining software development OpenAI Codex CLI Agents SDK for Developers delivers the hands on clarity professionals need to work CLI first You ll learn how to use OpenAI s Codex CLI for local iteration code modification and automation then elevate your work using the Agents SDK to create durable testable agent systems Each concept is anchored in practical examples you can run immediately guiding you from setup to policy enforcement evaluation telemetry and CI CD integration This is not a book about abstract theory It s about building real agentic systems that you can reason about test and trust Through structured workflows reproducible examples and consistent patterns you ll learn how to make AI work alongside you not above you You ll gain the skills to Install configure and use the Codex CLI to create agents directly from your project directory Write test and govern agents using the OpenAI Agents SDK in both TypeScript and Python Build reproducible local development environments using containers and transcripts Integrate tracing observability and evaluation metrics for performance and cost tracking Apply policy modules approval systems and guardrails for safe and compliant automation Design scalable multi agent architectures that balance autonomy with control Every chapter is built around real engineering patterns clear measurable and production ready By the final section you ll not only understand how these systems work but also have the confidence to build your own AI enabled workflows that enhance productivity and reduce operational risk Whether you re automating development tasks orchestrating agents across services or introducing AI to your enterprise stack this guide equips you with the practical tools and mental models to do it right safely reliably and at scale Build smarter faster and safer with AI agents that actually work Get your copy and start shipping the next generation of agentic systems today *Azure OpenAI Service for Cloud Native Applications* Adrián González Sánchez, 2024-06-27 Get the details examples and best practices you need to build generative AI applications services and solutions using the power of Azure OpenAI Service With this comprehensive guide Microsoft AI specialist Adri n Gonz lez S nchez examines the integration and utilization of Azure OpenAI Service using powerful generative AI models such as GPT 4 and GPT 4o within the Microsoft Azure cloud computing platform To guide you through the technical details of using Azure OpenAI Service this book shows you how to set up the necessary Azure resources prepare end to end architectures work with APIs manage costs and usage handle data privacy and security and optimize performance You ll learn various use cases where Azure OpenAI Service models can be applied and get valuable insights from some of the most relevant AI and cloud experts Ideal for software and cloud developers product managers architects and engineers as

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generative AI models such as GPT 4 and GPT 4o within the Microsoft Azure cloud computing platform To guide you through the technical details of using Azure OpenAI Service this book shows you how to set up the necessary Azure resources prepare end to end architectures work with APIs manage costs and usage handle data privacy and security and optimize performance You ll learn various use cases where Azure OpenAI Service models can be applied and get valuable insights from some of the most relevant AI and cloud experts Ideal for software and cloud developers product managers architects and engineers as well as cloud enabled data scientists this book will help you Learn how to implement cloud native applications with Azure OpenAI Service Deploy customize and integrate Azure OpenAI Service with your applications Customize large language models and orchestrate knowledge with company owned data Use advanced roadmaps to plan your generative AI project Estimate cost and plan generative AI implementations for adopter companies *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

Unveiling the Magic of Words: A Review of "**Openai Compare Setup**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Openai Compare Setup**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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