

Benefits Of Using Same-Day Delivery



Openai Same Day Delivery Install

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Openai Same Day Delivery Install:

Hugging Face in Action Wei-Meng Lee, 2025-11-11 Everything you need to know about using the tools libraries and models at Hugging Face from transformers to RAG LangChain and Gradio Hugging Face in Action reveals how to get the absolute best out of everything Hugging Face from accessing state of the art models to building intuitive frontends for AI apps With Hugging Face in Action you ll learn Utilizing Hugging Face Transformers and Pipelines for NLP tasks Applying Hugging Face techniques for Computer Vision projects Manipulating Hugging Face Datasets for efficient data handling Training Machine Learning models with AutoTrain functionality Implementing AI agents for autonomous task execution Developing LLM based applications using LangChain and LlamaIndex Constructing LangChain applications visually with LangFlow Creating web based user interfaces using Gradio Building locally running LLM based applications with GPT4ALL Querying local data using Large Language Models Want a cutting edge transformer library Hugging Face s open source offering is best in class Need somewhere to host your models Hugging Face Spaces has you covered Do your users need an intuitive frontend for your AI app Hugging Face s Gradio library makes it easy to build UI using the Python skills you already have In Hugging Face in Action you ll learn how to take full advantage of all of Hugging Face s amazing features to quickly and reliably prototype and productionize AI applications About the technology Hugging Face is an incredible open source ecosystem for AI engineers and data scientists providing hundreds of pre trained models datasets tools and libraries It s also a central hub for collaborating on leading edge AI research Hugging Face is a massive platform and this book will help you take full advantage of all it has to offer About the book Hugging Face in Action teaches you how to build end to end AI systems using resources from the Hugging Face community In it you ll create multiple projects including an object detection model a RAG Q A application an LLM powered chatbot and more You ll appreciate the clear accessible explanations along with thoughtful introductions to key technologies like LangChain LlamaIndex and Gradio What s inside How to navigate the huge Hugging Face library of models and tools How to run LLMs locally using GPT4ALL How to create web based user interfaces using Gradio How to improve models using Hugging Face datasets About the reader For Python programmers familiar with NumPy and Pandas No AI experience required About the author Wei Meng Lee is a technologist and founder of Developer Learning Solutions Table of Contents 1 Introducing Hugging Face 2 Getting started 3 Using Hugging Face transformers and pipelines for NLP tasks 4 Using Hugging Face for computer vision tasks 5 Exploring tokenizing and visualizing Hugging Face datasets 6 Fine tuning pretrained models and working with multimodal models 7 Creating LLM based applications using LangChain and LlamaIndex 8 Building LangChain applications visually using Langflow 9 Programming agents 10 Building a web based UI using Gradio 11 Building locally running LLM based applications using GPT4All 12 Using LLMs to query your local data 13 Bridging LLMs to the real world with the Model Context Protocol

The Complete Obsolete Guide to Generative AI David Clinton, 2024-09-17 The last book on AI you ll ever need We

swear AI technology moves so fast that this book is probably already out of date But don't worry The Complete Obsolete Guide to Generative AI is still an essential read for anyone who wants to make generative AI into a tool rather than a toy It shows you how to get the best out of AI no matter what changes come in the future You'll be able to use common automation and scripting tools to take AI to a new level and access raw and powerful GPT models via API Inside The Complete Obsolete Guide to Generative AI you will find Just enough background info on AI What an AI model is how it works Ways to create text code and images for your organization's needs Training AI models on your local data stores or on the internet Business intelligence and analytics uses for AI Building your own custom AI models Looking ahead to the future of generative AI Where to get started How about creating exciting images video and even audio with AI Need more Learn to harness AI to speed up any everyday work task including writing boilerplate code creating specialized documents and analyzing your own data Push beyond simple ChatGPT prompts Discover ways to double your productivity and take on projects you never thought were possible AI and this book are here to show you how About the technology Everything you learn about Generative AI tools like Chat GPT Copilot and Claude becomes obsolete almost immediately So how do you decide where to spend your time and your company's money This entertaining and unbelievably practical book shows you what you can and should do with AI now and how to roll with the changes as they happen About the book The Complete Obsolete Guide to Generative AI is a lighthearted introduction to Generative AI written for technology professionals and motivated AI enthusiasts In it you'll get a quick paced survey of AI techniques for creating code text images and presentations working with data and much more As you explore the hands on exercises you'll build an intuition for how Generative AI can transform your daily work and communication and maybe even learn how to make peace with your new robot overlords What's inside The big picture of Generative AI tools and tech Creating useful text code and images Writing effective prompts AI driven data analytics About the reader Written for developers admins and other IT pros Some examples use simple Python code About the author David Clinton is an AWS Solutions Architect a Linux server administrator and a world renowned expert on obsolescence The technical editor on this book was Maris Sekar Table of Contents 1 Understanding generative AI basics 2 Managing generative AI 3 Creating text and code 4 Creating with media resources 5 Feeding data to your generative AI models 6 Prompt engineering Optimizing your experience 7 Outperforming legacy research and learning tools 8 Understanding stuff better 9 Building and running your own large language model 10 How I learned to stop worrying and love the chaos 11 Experts weigh in on putting AI to work A Important definitions and a brief history B Generative AI resources C Installing Python

Learning LangChain Mayo Oshin, Nuno Campos, 2025-02-13 If you're looking to build production ready AI applications that can reason and retrieve external data for context awareness you'll need to master LangChain a popular development framework and platform for building running and managing agentic applications LangChain is used by several leading companies including Zapier Replit Databricks and many more This guide is an indispensable resource for developers

who understand Python or JavaScript but are beginners eager to harness the power of AI Authors Mayo Oshin and Nuno Campos demystify the use of LangChain through practical insights and in depth tutorials Starting with basic concepts this book shows you step by step how to build a production ready AI agent that uses your data Harness the power of retrieval augmented generation RAG to enhance the accuracy of LLMs using external up to date data Develop and deploy AI applications that interact intelligently and contextually with users Make use of the powerful agent architecture with LangGraph Integrate and manage third party APIs and tools to extend the functionality of your AI applications Monitor test and evaluate your AI applications to improve performance Understand the foundations of LLM app development and how they can be used with LangChain

RAG-Driven Generative AI Denis Rothman, 2024-09-30 Minimize AI hallucinations and build accurate custom generative AI pipelines with RAG using embedded vector databases and integrated human feedback Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Implement RAG s traceable outputs linking each response to its source document to build reliable multimodal conversational agents Deliver accurate generative AI models in pipelines integrating RAG real time human feedback improvements and knowledge graphs Balance cost and performance between dynamic retrieval datasets and fine tuning static data Book Description RAG Driven Generative AI provides a roadmap for building effective LLM computer vision and generative AI systems that balance performance and costs This book offers a detailed exploration of RAG and how to design manage and control multimodal AI pipelines By connecting outputs to traceable source documents RAG improves output accuracy and contextual relevance offering a dynamic approach to managing large volumes of information This AI book shows you how to build a RAG framework providing practical knowledge on vector stores chunking indexing and ranking You ll discover techniques to optimize your project s performance and better understand your data including using adaptive RAG and human feedback to refine retrieval accuracy balancing RAG with fine tuning implementing dynamic RAG to enhance real time decision making and visualizing complex data with knowledge graphs You ll be exposed to a hands on blend of frameworks like LlamaIndex and Deep Lake vector databases such as Pinecone and Chroma and models from Hugging Face and OpenAI By the end of this book you will have acquired the skills to implement intelligent solutions keeping you competitive in fields from production to customer service across any project What you will learn Scale RAG pipelines to handle large datasets efficiently Employ techniques that minimize hallucinations and ensure accurate responses Implement indexing techniques to improve AI accuracy with traceable and transparent outputs Customize and scale RAG driven generative AI systems across domains Find out how to use Deep Lake and Pinecone for efficient and fast data retrieval Control and build robust generative AI systems grounded in real world data Combine text and image data for richer more informative AI responses Who this book is for This book is ideal for data scientists AI engineers machine learning engineers and MLOps engineers If you are a solutions architect software developer product manager or project manager looking to enhance the decision making process of building RAG applications

then you'll find this book useful LLM Prompt Engineering for Developers Aymen El Amri, 2024-05-23 Explore the dynamic field of LLM prompt engineering with this book Starting with fundamental NLP principles progressing to sophisticated prompt engineering methods this book serves as the perfect comprehensive guide Key Features In depth coverage of prompt engineering from basics to advanced techniques Insights into cutting edge methods like AutoCoT and transfer learning Comprehensive resource sections including prompt databases and tools Book Description LLM Prompt Engineering For Developers begins by laying the groundwork with essential principles of natural language processing NLP setting the stage for more complex topics It methodically guides readers through the initial steps of understanding how large language models work providing a solid foundation that prepares them for the more intricate aspects of prompt engineering As you proceed the book transitions into advanced strategies and techniques that reveal how to effectively interact with and utilize these powerful models From crafting precise prompts that enhance model responses to exploring innovative methods like few shot and zero shot learning this resource is designed to unlock the full potential of language model technology This book not only teaches the technical skills needed to excel in the field but also addresses the broader implications of AI technology It encourages thoughtful consideration of ethical issues and the impact of AI on society By the end of this book readers will master the technical aspects of prompt engineering appreciate the importance of responsible AI development making them well rounded professionals ready to focus on the advancement of this cutting edge technology What you will learn Understand the principles of NLP and their application in LLMs Set up and configure environments for developing with LLMs Implement few shot and zero shot learning techniques Enhance LLM outputs through AutoCoT and self consistency methods Apply transfer learning to adapt LLMs to new domains Develop practical skills in testing scoring prompt effectiveness Who this book is for The target audience for LLM Prompt Engineering For Developers includes software developers AI enthusiasts technical team leads advanced computer science students and AI researchers with a basic understanding of artificial intelligence Ideal for those looking to deepen their expertise in large language models and prompt engineering this book serves as a practical guide for integrating advanced AI driven projects and research into various workflows assuming some foundational programming knowledge and familiarity with AI concepts **ChatGPT & Co.** Rainer Hattenhauer, 2024-09-18 Would you like to know how you can benefit from generative artificial intelligence AI Then this book will be of great help to you It shows you how AI can make your life easier and it will teach you what added value the current application scenarios of ChatGPT Midjourney and various other AI tools offer and where their limits lie Whether you want to write text conduct research generate images or create your own program code you can get started right away without any previous knowledge Bolstered with many practical examples from the most diverse areas of application this book presents ChatGPT as part of an ever growing toolkit and guides you on which tools to utilize and apply This is a valuable workbook for those looking to harness and incorporate ChatGPT and generative AI into their work studies or general life Key Features Demonstrates the

profitable use of ChatGPT and other AI tools to make work easier at work and in everyday life Provides practical examples to help with perfect prompts Shows how to create impressive images with just a few words Provides programmers with powerful tools to make the creation of professional software a child's play Dives deeper into the topic of text generative AI for advanced users and provides valuable tips and tricks

Practical Simulations for Machine Learning Paris

Buttfield-Addison,Mars Buttfield-Addison,Tim Nugent,Jon Manning,2022-06-07 Simulation and synthesis are core parts of the future of AI and machine learning Consider programmers data scientists and machine learning engineers can create the brain of a self driving car without the car Rather than use information from the real world you can synthesize artificial data using simulations to train traditional machine learning models That's just the beginning With this practical book you'll explore the possibilities of simulation and synthesis based machine learning and AI concentrating on deep reinforcement learning and imitation learning techniques AI and ML are increasingly data driven and simulations are a powerful engaging way to unlock their full potential You'll learn how to Design an approach for solving ML and AI problems using simulations with the Unity engine Use a game engine to synthesize images for use as training data Create simulation environments designed for training deep reinforcement learning and imitation learning models Use and apply efficient general purpose algorithms for simulation based ML such as proximal policy optimization Train a variety of ML models using different approaches Enable ML tools to work with industry standard game development tools using PyTorch and the Unity ML Agents and Perception Toolkits

The Regularization Cookbook Vincent Vandenbussche,Akin Osman Kazakci,2023-07-31

Methodologies and recipes to regularize any machine learning and deep learning model using cutting edge technologies such as stable diffusion Dall E and GPT 3 Purchase of the print or Kindle book includes a free PDF eBook Key Features Learn to diagnose the need for regularization in any machine learning model Regularize different ML models using a variety of techniques and methods Enhance the functionality of your models using state of the art computer vision and NLP techniques Book Description Regularization is an infallible way to produce accurate results with unseen data however applying regularization is challenging as it is available in multiple forms and applying the appropriate technique to every model is a must The Regularization Cookbook provides you with the appropriate tools and methods to handle any case with ready to use working codes as well as theoretical explanations After an introduction to regularization and methods to diagnose when to use it you'll start implementing regularization techniques on linear models such as linear and logistic regression and tree based models such as random forest and gradient boosting You'll then be introduced to specific regularization methods based on data high cardinality features and imbalanced datasets In the last five chapters you'll discover regularization for deep learning models After reviewing general methods that apply to any type of neural network you'll dive into more NLP specific methods for RNNs and transformers as well as using BERT or GPT 3 By the end you'll explore regularization for computer vision covering CNN specifics along with the use of generative models such as stable diffusion and Dall E By the end of this

book you'll be armed with different regularization techniques to apply to your ML and DL models What you will learn

- Diagnose overfitting and the need for regularization
- Regularize common linear models such as logistic regression
- Understand regularizing tree based models such as XGBoos
- Uncover the secrets of structured data to regularize ML models
- Explore general techniques to regularize deep learning models
- Discover specific regularization techniques for NLP problems using transformers
- Understand the regularization in computer vision models and CNN architectures
- Apply cutting edge computer vision regularization with generative models

Who this book is for This book is for data scientists machine learning engineers and machine learning enthusiasts looking to get hands on knowledge to improve the performances of their models

Basic knowledge of Python is a prerequisite

PyTorch 1.x Reinforcement Learning Cookbook Yuxi (Hayden) Liu, 2019-10-31

Implement reinforcement learning techniques and algorithms with the help of real world examples and recipes

Key Features

- Use PyTorch 1.x to design and build self learning artificial intelligence AI models
- Implement RL algorithms to solve control and optimization challenges faced by data scientists today
- Apply modern RL libraries to simulate a controlled environment for your projects

Book Description

Reinforcement learning RL is a branch of machine learning that has gained popularity in recent times It allows you to train AI models that learn from their own actions and optimize their behavior PyTorch has also emerged as the preferred tool for training RL models because of its efficiency and ease of use With this book you'll explore the important RL concepts and the implementation of algorithms in PyTorch 1.x The recipes in the book along with real world examples will help you master various RL techniques such as dynamic programming Monte Carlo simulations temporal difference and Q learning You'll also gain insights into industry specific applications of these techniques Later chapters will guide you through solving problems such as the multi armed bandit problem and the cartpole problem using the multi armed bandit algorithm and function approximation You'll also learn how to use Deep Q Networks to complete Atari games along with how to effectively implement policy gradients Finally you'll discover how RL techniques are applied to Blackjack Gridworld environments internet advertising and the Flappy Bird game By the end of this book you'll have developed the skills you need to implement popular RL algorithms and use RL techniques to solve real world problems

What you will learn

- Use Q learning and the state action reward state action SARSA algorithm to solve various Gridworld problems
- Develop a multi armed bandit algorithm to optimize display advertising
- Scale up learning and control processes using Deep Q Networks
- Simulate Markov Decision Processes OpenAI Gym environments and other common control problems
- Select and build RL models evaluate their performance and optimize and deploy them
- Use policy gradient methods to solve continuous RL problems

Who this book is for Machine learning engineers data scientists and AI researchers looking for quick solutions to different reinforcement learning problems will find this book useful Although prior knowledge of machine learning concepts is required experience with PyTorch will be useful but not necessary

Python GPT Cookbook

Dr. Neil Williams, 2025-03-19

DESCRIPTION GPT has redefined the landscape of AI enabling the creation of powerful

language models capable of diverse applications The objective of the Python GPT Cookbook is to equip readers with practical recipes and foundational knowledge to build business solutions using GPT and Python The book is divided into four parts The first covers the basics the second teaches the fundamentals of NLP the third delves into applying GPT in various fields and the fourth provides a conclusion Each chapter includes recipes and practical insights to help readers deepen their understanding and apply the concepts presented This cookbook approach delivers 78 practical recipes including creating OpenAI accounts utilizing playgrounds and API keys You will learn text preprocessing embeddings fine tuning and GPT integration with Hugging Face Learn to implement GPT using PyTorch and TensorFlow convert models and build authenticated actions Applications include chatbots email summarization DBA copilots and use cases in marketing sales IP and manufacturing By the end of the book readers will have a robust understanding of GPT models and how to use them for real world NLP tasks along with the skills to continue exploring this powerful technology independently

WHAT YOU WILL LEARN

Learn Python OpenAI TensorFlow Hugging Face and vector databases Master Python for NLP applications and data manipulation Understand and implement GPT models for various tasks Integrate GPT with various architectural components such as databases third party APIs servers and data pipelines Utilise NLTK PyTorch and TensorFlow for advanced NLP projects Use Jupyter for interactive coding and data analysis

WHO THIS BOOK IS FOR

The Python GPT Cookbook is for IT professionals and business innovators who already have basic Python skills Data scientists ML engineers NLP engineers and ML researchers will also find it useful

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TensorFlow

1.x Deep Learning Cookbook Antonio Gulli, Amita Kapoor, 2017-12-12 Take the next step in implementing various common and not so common neural networks with Tensorflow

1 x About This Book Skill up and implement tricky neural networks using Google s TensorFlow

1 x An easy to follow guide that lets you explore reinforcement learning GANs autoencoders multilayer perceptrons and more Hands on recipes to work with Tensorflow on desktop mobile and cloud environment

Who This Book Is For This book is intended for data analysts data scientists machine learning practitioners and deep learning enthusiasts who want to perform deep learning tasks on a regular basis and are looking for a handy guide they can refer to People who are slightly familiar with neural networks and now want to gain expertise in working with different types of neural networks and datasets will find this book quite useful

What You Will Learn

Install TensorFlow and use it for CPU and GPU operations Implement DNNs and apply them to solve different AI driven problems Leverage different data sets such as MNIST CIFAR 10 and Youtube8m with TensorFlow and learn how to access and use them in your code Use TensorBoard to understand neural network architectures optimize the learning process and peek inside the neural network black box Use

different regression techniques for prediction and classification problems Build single and multilayer perceptrons in TensorFlow Implement CNN and RNN in TensorFlow and use it to solve real world use cases Learn how restricted Boltzmann Machines can be used to recommend movies Understand the implementation of Autoencoders and deep belief networks and use them for emotion detection Master the different reinforcement learning methods to implement game playing agents GANs and their implementation using TensorFlow In Detail Deep neural networks DNNs have achieved a lot of success in the field of computer vision speech recognition and natural language processing The entire world is filled with excitement about how deep networks are revolutionizing artificial intelligence This exciting recipe based guide will take you from the realm of DNN theory to implementing them practically to solve the real life problems in artificial intelligence domain In this book you will learn how to efficiently use TensorFlow Google's open source framework for deep learning You will implement different deep learning networks such as Convolutional Neural Networks CNNs Recurrent Neural Networks RNNs Deep Q learning Networks DQNs and Generative Adversarial Networks GANs with easy to follow independent recipes You will learn how to make Keras as backend with TensorFlow With a problem solution approach you will understand how to implement different deep neural architectures to carry out complex tasks at work You will learn the performance of different DNNs on some popularly used data sets such as MNIST CIFAR 10 Youtube8m and more You will not only learn about the different mobile and embedded platforms supported by TensorFlow but also how to set up cloud platforms for deep learning applications Get a sneak peek of TPU architecture and how they will affect DNN future By using crisp no nonsense recipes you will become an expert in implementing deep learning techniques in growing real world applications and research areas such as reinforcement learning GANs autoencoders and more Style and approach This book consists of hands on recipes where you ll deal with real world problems You ll execute a series of tasks as you walk through data mining challenges using TensorFlow 1 x Your one stop solution for common and not so common pain points this is a book that you must have on the shelf

The Reinforcement Learning Workshop Alessandro Palmas,Emanuele Ghelfi,Dr. Alexandra Galina Petre,Mayur Kulkarni,Anand N.S.,Quan Nguyen,Aritra Sen,Anthony So,Saikat Basak,2020-08-18 Start with the basics of reinforcement learning and explore deep learning concepts such as deep Q learning deep recurrent Q networks and policy based methods with this practical guide Key FeaturesUse TensorFlow to write reinforcement learning agents for performing challenging tasksLearn how to solve finite Markov decision problemsTrain models to understand popular video games like BreakoutBook Description Various intelligent applications such as video games inventory management software warehouse robots and translation tools use reinforcement learning RL to make decisions and perform actions that maximize the probability of the desired outcome This book will help you to get to grips with the techniques and the algorithms for implementing RL in your machine learning models Starting with an introduction to RL you ll be guided through different RL environments and frameworks You ll learn how to implement your own custom environments and use OpenAI baselines to run RL algorithms

Once you've explored classic RL techniques such as Dynamic Programming Monte Carlo and TD Learning you'll understand when to apply the different deep learning methods in RL and advance to deep Q learning. The book will even help you understand the different stages of machine-based problem solving by using DQN on a popular video game Breakout. Finally, you'll find out when to use a policy-based method to tackle an RL problem. By the end of The Reinforcement Learning Workshop, you'll be equipped with the knowledge and skills needed to solve challenging problems using reinforcement learning. What you will learn: Use OpenAI Gym as a framework to implement RL environments; Find out how to define and implement reward function; Explore Markov chain Markov decision process and the Bellman equation; Distinguish between Dynamic Programming Monte Carlo and Temporal Difference Learning; Understand the multi-armed bandit problem and explore various strategies to solve it; Build a deep Q model network for playing the video game Breakout. Who this book is for: If you are a data scientist, machine learning enthusiast, or a Python developer who wants to learn basic to advanced deep reinforcement learning algorithms, this workshop is for you. A basic understanding of the Python language is necessary.

Generative AI in Action Amit Bahree, 2024-10-29 From the back cover: Generative AI in Action presents concrete examples, insights, and techniques for using LLMs and other modern AI technologies successfully and safely. In it, you'll find practical approaches for incorporating AI into marketing, software development, business report generation, data storytelling, and other typically human tasks. You'll explore the emerging patterns for GenAI apps, master best practices for prompt engineering, and learn how to address hallucination, high operating costs, the rapid pace of change, and other common problems. About the reader: For enterprise architects, developers, and data scientists interested in upgrading their architectures with generative AI.

Artificial Intelligence All-in-One For Dummies Chris Minnick, John Paul Mueller, Luca Massaron, Stephanie Diamond, Pam Baker, Daniel Stanton, Shiv Singh, Paul Mladjenovic, Sheryl Lindsell-Roberts, Jeffrey Allan, 2025-05-15 A comprehensive roadmap to using AI in your career and in your life. Artificial intelligence is everywhere. Major software organizations like Microsoft, Google, and Apple have built AI directly into products and invited the world to become part of the AI revolution. And it's impossible to use these tools to their fullest potential without understanding the basics of what AI is and what it can do. Artificial Intelligence All-in-One For Dummies compiles insight from the expert authors of AI books in the For Dummies series to provide an easy-to-follow walkthrough for anyone interested in learning how to use AI. You'll learn how to put artificial intelligence to work for you and your company in a wide variety of situations, from creating office assistants to managing projects and marketing your products. Inside the book: How to prompt AI platforms like ChatGPT and Copilot while avoiding hallucinations and other bugs; Strategies for adding artificial intelligence tools to your company's existing workflows to improve efficiency and generate new opportunities; Techniques to improve your programming capabilities with AI or create new AI-powered tools. Perfect for professionals curious about the potential and pitfalls associated with generative artificial intelligence. Artificial Intelligence All-in-One For Dummies shows

you exactly how AI works and how you can apply it in your own professional and personal life

Generative AI For Software Engineers: The Journey Begins Naresh Dulam, 2023-07-23 This book assists software engineers as they explore the realm of Artificial Intelligence AI providing essential tools and techniques for creating new AI powered applications or adding AI functionalities to their current projects Significant advancements in AI and machine learning ML frameworks have allowed software engineers to easily integrate intelligent capabilities into their products or projects in the last ten years The introduction of ChatGPT in late 2022 brought Generative AI into the spotlight Although abundant information is available online software engineers need help finding a clear entry point like 101 to learn fundamentals This guide simplifies the core concepts gradually addressing more advanced topics to enable you to create practical production ready AI solutions with concrete code examples Note This book simplifies complex concepts by applying abstractions for software engineers to grasp the basics of Generative AI

Large Language Models Stephan Raaijmakers, 2025-10-28 An in depth history of Large Language Models and what their ubiquity disruption and creativity mean from a wider sociopolitical perspective In November 2022 ChatGPT swept the globe with a mixed frenzy of excitement and anxiety Was this a step closer to reaching singularity or just another marvel in machine learning Author Stephan Raaijmakers provides a comprehensive introduction to Large Language Models LLMs describing what exactly they are capable of from a technical and creative standpoint This concise volume covers everything from the architecture of LLM neural networks to the limitations of LLMs to how our governments can regulate this technology In explaining how exactly LLMs learn from data sets Raaijmakers defangs the more sensational arguments we may be familiar with Instead he offers a more grounded approach to how this groundbreaking and increasingly ubiquitous form of artificial intelligence will shape our society for years to come

ChatGPT for Cybersecurity Cookbook Clint Bodungen, 2024-03-29 Master ChatGPT and the OpenAI API and harness the power of cutting edge generative AI and large language models to revolutionize the way you perform penetration testing threat detection and risk assessment Get With Your Book PDF Copy AI Assistant and Next Gen Reader Free Key Features Enhance your skills by leveraging ChatGPT to generate complex commands write code and create tools Automate penetration testing risk assessment and threat detection tasks using the OpenAI API and Python programming Revolutionize your approach to cybersecurity with an AI powered toolkit Book Description Are you ready to unleash the potential of AI driven cybersecurity This cookbook takes you on a journey toward enhancing your cybersecurity skills whether you re a novice or a seasoned professional By leveraging cutting edge generative AI and large language models such as ChatGPT you ll gain a competitive advantage in the ever evolving cybersecurity landscape ChatGPT for Cybersecurity Cookbook shows you how to automate and optimize various cybersecurity tasks including penetration testing vulnerability assessments risk assessment and threat detection Each recipe demonstrates step by step how to utilize ChatGPT and the OpenAI API to generate complex commands write code and even create complete tools You ll discover how AI powered cybersecurity can revolutionize your

approach to security providing you with new strategies and techniques for tackling challenges As you progress you ll dive into detailed recipes covering attack vector automation vulnerability scanning GPT assisted code analysis and more By learning to harness the power of generative AI you ll not only expand your skillset but also increase your efficiency By the end of this cybersecurity book you ll have the confidence and knowledge you need to stay ahead of the curve mastering the latest generative AI tools and techniques in cybersecurity What you will learn Master ChatGPT prompt engineering for complex cybersecurity tasks Use the OpenAI API to enhance and automate penetration testing Implement artificial intelligence driven vulnerability assessments and risk analyses Automate threat detection with the OpenAI API Develop custom AI enhanced cybersecurity tools and scripts Perform AI powered cybersecurity training and exercises Optimize cybersecurity workflows using generative AI powered techniques Who this book is for This book is for cybersecurity professionals IT experts and enthusiasts looking to harness the power of ChatGPT and the OpenAI API in their cybersecurity operations Whether you re a red teamer blue teamer or security researcher this book will help you revolutionize your approach to cybersecurity with generative AI powered techniques A basic understanding of cybersecurity concepts along with familiarity in Python programming is expected Experience with command line tools and basic knowledge of networking concepts and web technologies is also required

Hands-On Artificial Intelligence for IoT Amita Kapoor,2019-01-31

Build smarter systems by combining artificial intelligence and the Internet of Things two of the most talked about topics today Key FeaturesLeverage the power of Python libraries such as TensorFlow and Keras to work with real time IoT dataProcess IoT data and predict outcomes in real time to build smart IoT modelsCover practical case studies on industrial IoT smart cities and home automationBook Description There are many applications that use data science and analytics to gain insights from terabytes of data These apps however do not address the challenge of continually discovering patterns for IoT data In Hands On Artificial Intelligence for IoT we cover various aspects of artificial intelligence AI and its implementation to make your IoT solutions smarter This book starts by covering the process of gathering and preprocessing IoT data gathered from distributed sources You will learn different AI techniques such as machine learning deep learning reinforcement learning and natural language processing to build smart IoT systems You will also leverage the power of AI to handle real time data coming from wearable devices As you progress through the book techniques for building models that work with different kinds of data generated and consumed by IoT devices such as time series images and audio will be covered Useful case studies on four major application areas of IoT solutions are a key focal point of this book In the concluding chapters you will leverage the power of widely used Python libraries TensorFlow and Keras to build different kinds of smart AI models By the end of this book you will be able to build smart AI powered IoT apps with confidence What you will learnApply different AI techniques including machine learning and deep learning using TensorFlow and KerasAccess and process data from various distributed sourcesPerform supervised and unsupervised machine learning for IoT

dataImplement distributed processing of IoT data over Apache Spark using the MLLib and H2O ai platformsForecast time series data using deep learning methodsImplementing AI from case studies in Personal IoT Industrial IoT and Smart CitiesGain unique insights from data obtained from wearable devices and smart devicesWho this book is for If you are a data science professional or a machine learning developer looking to build smart systems for IoT Hands On Artificial Intelligence for IoT is for you If you want to learn how popular artificial intelligence AI techniques can be used in the Internet of Things domain this book will also be of benefit A basic understanding of machine learning concepts will be required to get the best out of this book **Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow** Aurélien Géron,2019-09-05

Through a series of recent breakthroughs deep learning has boosted the entire field of machine learning Now even programmers who know close to nothing about this technology can use simple efficient tools to implement programs capable of learning from data This practical book shows you how By using concrete examples minimal theory and two production ready Python frameworks Scikit Learn and TensorFlow author Aur lien G ron helps you gain an intuitive understanding of the concepts and tools for building intelligent systems You ll learn a range of techniques starting with simple linear regression and progressing to deep neural networks With exercises in each chapter to help you apply what you ve learned all you need is programming experience to get started Explore the machine learning landscape particularly neural nets Use Scikit Learn to track an example machine learning project end to end Explore several training models including support vector machines decision trees random forests and ensemble methods Use the TensorFlow library to build and train neural nets Dive into neural net architectures including convolutional nets recurrent nets and deep reinforcement learning Learn techniques for training and scaling deep neural nets *Prompt Engineering* Ajantha Devi Vairamani,Anand Nayyar,2024-12-02 Prompt engineering engages as a transformative approach to enhancing interaction creativity and innovation From business and healthcare to education law and beyond prompt engineering is a versatile toolkit for navigating complex challenges and driving meaningful change This book delves into the intricacies of prompt engineering providing insights techniques and practical examples for leveraging prompts effectively It explores the evolution of prompt engineering from its early antecedents to its contemporary applications with advanced language models like ChatGPT Readers will discover how prompts can enhance communication foster creativity facilitate problem solving and empower professionals across diverse domains This book is your gateway to unlocking the full potential of prompt engineering Join the journey of discovery and innovation as the book harnesses the power of prompts to shape a brighter future

Openai Same Day Delivery Install Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has been evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Openai Same Day Delivery Install**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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