

gpt-3.5-turbo :

SYSTEM

Create a simple file manager in python.

USER

"Respond only with the code."

ASSISTANT

```
``` python
import os
```

```
def show_files_in_directory():
 files = os.listdir()
 for file in files:
 print(file)
```

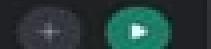
```
def create_new_file(file_name):
 with open(file_name, 'w') as file:
 file.write("")
```

```
def delete_file(file_name):
 if os.path.exists(file_name):
 os.remove(file_name)
 print("File deleted successfully")
```

Latency: 44.77ms · Finish reason: stop

User

Enter your message...



gpt-4-turbo-2024-04-09 :

## SYSTEM

Create a simple file manager in python.

## USER

"Respond only with the code."

## ASSISTANT

```
``` python
import os
import shutil
```

```
class FileManager:
    def __init__(self, directory):
        self.current_directory = directory
```

```
    def list_files(self):
        return os.listdir(self.current_directory)
```

```
    def change_directory(self, new_directory):
        if os.path.isdir(new_directory):
            self.current_directory = new_directory
            return f"Changed directory to {new_directory}"
        else:
```

Latency: 70.1ms · Finish reason: length

Openai Compare Install

Yuxi (Hayden) Liu

Openai Compare Install:

Deep Learning with TensorFlow and Keras Amita Kapoor, Antonio Gulli, Sujit Pal, Francois Chollet, 2022-10-06 Build cutting edge machine and deep learning systems for the lab production and mobile devices Key Features Understand the fundamentals of deep learning and machine learning through clear explanations and extensive code samples Implement graph neural networks transformers using Hugging Face and TensorFlow Hub and joint and contrastive learning Learn cutting edge machine and deep learning techniques Book Description Deep Learning with TensorFlow and Keras teaches you neural networks and deep learning techniques using TensorFlow TF and Keras You'll learn how to write deep learning applications in the most powerful popular and scalable machine learning stack available TensorFlow 2.x focuses on simplicity and ease of use with updates like eager execution, intuitive higher level APIs based on Keras and flexible model building on any platform. This book uses the latest TF 2.0 features and libraries to present an overview of supervised and unsupervised machine learning models and provides a comprehensive analysis of deep learning and reinforcement learning models using practical examples for the cloud, mobile, and large production environments. This book also shows you how to create neural networks with TensorFlow, runs through popular algorithms, regression, convolutional neural networks (CNNs), transformers, generative adversarial networks (GANs), recurrent neural networks (RNNs), natural language processing (NLP), and graph neural networks (GNNs). It covers working example apps and then dives into TF in production, TF mobile, and TensorFlow with AutoML. What you will learn: Learn how to use the popular GNNs with TensorFlow to carry out graph mining tasks Discover the world of transformers from pretraining to fine tuning to evaluating them Apply self-supervised learning to natural language processing, computer vision, and audio signal processing Combine probabilistic and deep learning models using TensorFlow Probability Train your models on the cloud and put TF to work in real environments Build machine learning and deep learning systems with TensorFlow 2.x and the Keras API Who this book is for: This hands-on machine learning book is for Python developers and data scientists who want to build machine learning and deep learning systems with TensorFlow. This book gives you the theory and practice required to use Keras, TensorFlow, and AutoML to build machine learning systems. Some machine learning knowledge would be useful. We don't assume TF knowledge.

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

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 **Python Machine Learning By Example** Yuxi (Hayden) Liu, 2024-07-31 Author Yuxi Hayden Liu teaches machine learning from the fundamentals to building NLP transformers and multimodal models with best practice tips and real world examples using PyTorch TensorFlow scikit learn and pandas Free with your book DRM free PDF version access to Packt's next gen Reader Key Features Discover new and updated content on NLP transformers PyTorch and computer vision modeling Includes a dedicated chapter on best practices and additional best practice tips throughout the book to improve your ML solutions Implement ML models such as neural networks and linear and logistic regression from scratch Book Description The fourth edition of Python Machine Learning By Example is a comprehensive guide for beginners and experienced machine learning practitioners who want to learn more advanced techniques such as multimodal modeling Written by experienced machine learning author and ex Google machine learning engineer Yuxi Hayden Liu this edition emphasizes best practices providing invaluable insights for machine learning engineers data scientists and analysts Explore advanced techniques including two new chapters on natural language processing transformers with BERT and GPT and multimodal computer vision models with PyTorch and Hugging Face You'll learn key modeling techniques using practical examples such as predicting stock prices and creating an image search engine This hands on machine learning book navigates through complex challenges bridging the gap between theoretical understanding and practical application Elevate your machine learning and deep learning expertise tackle intricate problems and unlock the potential of advanced techniques in machine learning with this authoritative guide Email sign up and proof of purchase required What you will learn Follow machine learning best practices throughout data preparation and model development Build and improve image classifiers using convolutional neural networks CNNs and transfer learning Develop and fine tune neural networks using TensorFlow and PyTorch Analyze sequence data and make predictions using recurrent neural networks RNNs transformers and CLIP Build classifiers using support vector machines SVMs and boost performance with PCA Avoid overfitting using regularization

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Introduction to Intelligent Systems, Control, and Machine Learning using MATLAB

Marco P. Schoen,2023-11-16 Dive into intelligent systems machine learning and control with this hands on project based textbook including over 20 hands on Arduino Matlab and Simulink assignments With over 120 end of chapter problems and solutions for instructors this is the ideal practical introduction for senior and graduate engineering students **Building Data-Driven Applications with LlamaIndex** Andrei Gheorghiu,2024-05-10 Solve real world problems easily with artificial

intelligence AI using the LlamaIndex data framework to enhance your LLM based Python applications Key Features Examine text chunking effects on RAG workflows and understand security in RAG app development Discover chatbots and agents and learn how to build complex conversation engines Build as you learn by applying the knowledge you gain to a hands on project Book DescriptionDiscover the immense potential of Generative AI and Large Language Models LLMs with this comprehensive guide Learn to overcome LLM limitations such as contextual memory constraints prompt size issues real time data gaps and occasional hallucinations Follow practical examples to personalize and launch your LlamaIndex projects mastering skills in ingesting indexing querying and connecting dynamic knowledge bases From fundamental LLM concepts to LlamaIndex deployment and customization this book provides a holistic grasp of LlamaIndex's capabilities and applications By the end you'll be able to resolve LLM challenges and build interactive AI driven applications using best practices in prompt engineering and troubleshooting Generative AI projects What you will learn Understand the LlamaIndex ecosystem and common use cases Master techniques to ingest and parse data from various sources into LlamaIndex Discover how to create optimized indexes tailored to your use cases Understand how to query LlamaIndex effectively and interpret responses Build an end to end interactive web application with LlamaIndex Python and Streamlit Customize a LlamaIndex configuration based on your project needs Predict costs and deal with potential privacy issues Deploy LlamaIndex applications that others can use Who this book is for This book is for Python developers with basic knowledge of natural language processing NLP and LLMs looking to build interactive LLM applications Experienced developers and conversational AI developers will also benefit from the advanced techniques covered in the book to fully unleash the capabilities of the framework

Data Analytics Anthony S. Williams, Data Analytics 7 BOOK BUNDLE Book 1 Data Analytics For Beginners In this book you will learn What is Data Analytics Types of Data Analytics Evolution of Data Analytics Big Data Defined Data Mining Data Visualization Cluster Analysis And of course much more Book 2 Deep Learning With Keras In this book you will learn Deep Neural Network Neural Network Elements Keras Models Sequential Model Functional API Model Keras Layers Core Keras Layers Convolutional Keras Layers Recurrent Keras Layers Deep Learning Algorithms Supervised Learning Algorithms Applications of Deep Learning Models Automatic Speech and Image Recognition Natural Language Processing And of course much more Book 3 Analyzing Data With Power BI In this book you will learn Basics of data analysis processes Fundamental data analysis algorithms Basic of data and text mining data visualization and business intelligence Techniques used for analysing quantitative data Basic data analysis tasks Conceptual logical and physical data models Power BI service and data modelling Creating reports and visualizations in Power BI And of course much more Book 4 Reinforcement Learning With Python In this book you will learn Types of fundamental machine learning algorithms in comparison to reinforcement learning Essentials of reinforcement learning process Marko decision processes and basic parameters How to integrate reinforcement learning algorithm using OpenAI Gym How to integrate Monte Carlo methods for prediction Monte Carlo tree

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The American School Board Journal William George Bruce, William Conrad Bruce, Susanna Coccoft, 1917 A periodical of school administration

Maintenance Engineering Handbook, Ninth Edition Keith

Mobley, 2025-08-22 The most complete and current guide to every aspect of maintenance engineering updated to reflect the latest advances in the industry The most comprehensive resource of its kind Maintenance Engineering Handbook has long been a staple for engineers managers and technicians seeking current advice on everything from tools and techniques to planning and scheduling Since the last edition was published there have been exponential technology advancements that directly affect maintenance and maintenance engineering function Recent changes in technology especially those of predictive analytics wireless cloud base data acquisition and smart sensors have radically changed the landscape of both engineering and maintenance management This updated edition integrates these advances into a comprehensive approach to maintenance management with proven best practices for maintenance repair and overhaul MRO inventory management root cause analysis and performance management Featuring contributions from noted experts in the field Maintenance Engineering Handbook Ninth Edition will help engineers reduce excessive downtime and high maintenance costs by detecting and mitigating repetitive failures

Weekly Commercial News, 1941 **Electronics**, 1981 June issues 1941

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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 [Learn OpenAI Whisper](#) Josué R. Batista, 2024-05-31 Master automatic speech recognition ASR with groundbreaking generative AI for unrivaled accuracy and versatility in audio processing Key Features Uncover the intricate architecture and mechanics behind Whisper s robust speech recognition Apply Whisper s technology in innovative projects from audio transcription to voice synthesis Navigate the practical use of Whisper in real world scenarios for achieving dynamic tech solutions Purchase of the print or Kindle book includes a free PDF eBook Book Description As the field of generative AI evolves so does the demand for intelligent systems that can understand human speech Navigating the complexities of automatic speech recognition ASR technology is a significant challenge for many professionals This book offers a comprehensive solution that guides you through OpenAI s advanced ASR system You ll begin your journey with Whisper s foundational concepts gradually progressing to its sophisticated functionalities Next you ll explore the transformer model understand its multilingual capabilities and grasp training techniques using weak supervision The book helps you customize Whisper for different contexts and optimize its performance for specific needs You ll also focus on the vast potential of Whisper in real world scenarios including its transcription services voice based search and the ability to enhance customer engagement Advanced

chapters delve into voice synthesis and diarization while addressing ethical considerations. By the end of this book you'll have an understanding of ASR technology and have the skills to implement Whisper. Moreover, Python coding examples will equip you to apply ASR technologies in your projects as well as prepare you to tackle challenges and seize opportunities in the rapidly evolving world of voice recognition and processing. What you will learn: Integrate Whisper into voice assistants and chatbots; Use Whisper for efficient, accurate transcription services; Understand Whisper's transformer model structure and nuances; Fine tune Whisper for specific language requirements; Globally implement Whisper in real-time translation scenarios; Explore voice synthesis capabilities using Whisper's robust tech; Execute voice diarization with Whisper and NVIDIA's NeMo; Navigate ethical considerations in advanced voice technology. Who this book is for: Learn OpenAI Whisper is designed for a diverse audience including AI engineers, tech professionals, and students. It's ideal for those with a basic understanding of machine learning and Python programming and an interest in voice technology from developers integrating ASR in applications to researchers exploring the cutting edge possibilities in artificial intelligence.

Openai Gerard Blokdyk, 2017-11-21 Which individuals, teams, or departments will be involved in OpenAI? If substitutes have been appointed, have they been briefed on the OpenAI goals and received regular communications as to the progress to date? How can the value of OpenAI be defined? What is our formula for success in OpenAI? What is the total cost related to deploying OpenAI, including any consulting or professional services? Defining, designing, creating, and implementing a process to solve a business challenge or meet a business objective is the most valuable role in EVERY company, organization, and department. Unless you are talking a one-time, single-use project within a business, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, "What are we really trying to accomplish here? And is there a different way to look at it?" This Self-Assessment empowers people to do just that: to determine whether their title is entrepreneur, manager, consultant, Vice President, CxO, etc., they are the people who rule the future. They are the person who asks the right questions to make OpenAI investments work better. This OpenAI All-Inclusive Self-Assessment is designed to help you identify areas in which OpenAI improvements can be made. In using the questions you will be better able to diagnose OpenAI projects, initiatives, organizations, businesses, and processes using accepted diagnostic standards and practices. Implement evidence-based best practice strategies aligned with overall goals to integrate recent advances in OpenAI and process design strategies into practice according to best practice guidelines. Using a Self-Assessment tool known as the OpenAI Scorecard, you will develop a clear picture of which OpenAI areas need attention. Your purchase includes access details to the OpenAI self-assessment dashboard download, which gives you your dynamically prioritized projects ready tool and shows your

organization exactly what to do next Your exclusive instant access details can be found in your book [Openai](#) Gerardus Blokdyk,2018-01-13 Which individuals teams or departments will be involved in OpenAI If substitutes have been appointed have they been briefed on the OpenAI goals and received regular communications as to the progress to date How can the value of OpenAI be defined What is our formula for success in OpenAI What is the total cost related to deploying OpenAI including any consulting or professional services Defining designing creating and implementing a process to solve a business challenge or meet a business objective is the most valuable role In EVERY company organization and department Unless you are talking a one time single use project within a business there should be a process Whether that process is managed and implemented by humans AI or a combination of the two it needs to be designed by someone with a complex enough perspective to ask the right questions Someone capable of asking the right questions and step back and say What are we really trying to accomplish here And is there a different way to look at it This Self Assessment empowers people to do just that whether their title is entrepreneur manager consultant Vice President CxO etc they are the people who rule the future They are the person who asks the right questions to make OpenAI investments work better This OpenAI All Inclusive Self Assessment enables You to be that person All the tools you need to an in depth OpenAI Self Assessment Featuring 700 new and updated case based questions organized into seven core areas of process design this Self Assessment will help you identify areas in which OpenAI improvements can be made In using the questions you will be better able to diagnose OpenAI projects initiatives organizations businesses and processes using accepted diagnostic standards and practices implement evidence based best practice strategies aligned with overall goals integrate recent advances in OpenAI and process design strategies into practice according to best practice guidelines Using a Self Assessment tool known as the OpenAI Scorecard you will develop a clear picture of which OpenAI areas need attention Your purchase includes access details to the OpenAI self assessment dashboard download which gives you your dynamically prioritized projects ready tool and shows your organization exactly what to do next Your exclusive instant access details can be found in your book [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

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