Exploring Semantic Kernel and the Art of Prompt Engineering Resource Guide

Introduction to Generative AI, Language Models, Transformers, and Prompts

Generative AI exists because of the transformer - FT

OpenAI Cookbook

Polyglot Programming with Notebooks in Visual Studio Code

Jupyter Notebook: An Introduction – Real Python

State of GPT (microsoft.com)

Our thinking: The startling power generative AI is bringing to software development (kpmg.com)

Reframing Instructional Prompts to GPTk's Language

https://bootcamp.uxdesign.cc/how-chatgpt-really-works-explained-for-non-technical-people-71efb078a5c9

Large Language Models

Introduction to Large Language Models (cohere.com)

Transformers

https://txt.cohere.com/what-are-transformer-models/

The Illustrated Transformer – Jay Alammar – Visualizing machine learning one concept at a time. (jalammar.github.io)

Visualizing A Neural Machine Translation Model (Mechanics of Seq2seq Models With Attention) – Jay Alammar – Visualizing machine learning one concept at a time. (jalammar.github.io)

https://txt.cohere.com/sentence-word-embeddings/

OpenAI Tokenizer

Prompt Ideas

kevinamiri/Instructgpt-prompts: A collection of ChatGPT and GPT-3.5 instruction-based prompts for generating and classifying text. (github.com)

awesome-chatgpt-prompts/prompts.csv at main · f/awesome-chatgpt-prompts (github.com)

Principles of Prompt Engineering

Prompt Engineering Guide (promptingguide.ai)

XavKearney/chatgpt-guide: A guide for getting the most out of ChatGPT as a non-technical user. (github.com)

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https://learnprompting.org/

Understanding AI Learning Strategies

Mastering ChatGPT Prompts: Harnessing Zero, One, and Few-Shot Learning, Fine-Tuning, and Embeddings for Enhanced GPT Performance : r/aipromptprogramming (reddit.com)

Zero-Shot

Large Language Models are Zero-Shot Reasoners

Few-Shot

[2202.12837] Rethinking the Role of Demonstrations: What Makes In-Context Learning Work? (arxiv.org)

Chain-of-Thought

[2201.11903] Chain-of-Thought Prompting Elicits Reasoning in Large Language Models (arxiv.org)

Self-Consistency

[2203.11171] Self-Consistency Improves Chain of Thought Reasoning in Language Models (arxiv.org)

APE (

[2211.01910] Large Language Models Are Human-Level Prompt Engineers (arxiv.org)

LLM Risks

Exploring the Limitations and Challenges of Large Language Models in IT - DEV Community

Europe: ChatGPT's Use and Misuse in the Workplace (shrm.org)

Who Ultimately Owns Content Generated By ChatGPT And Other AI Platforms? (forbes.com)

Understanding Prompt Injection Attacks: What They Are and How to Protect Against Them - Prompts Ninja

Prompt injection: What's the worst that can happen? (simonwillison.net)

Delimiters won't save you from prompt injection (simonwillison.net)

Bootcamps / Classes

ChatGPT Prompt Engineering for Developers - DeepLearning.AI

Introducing LLM University — Your Go-To Learning Resource for NLP 🎓 (cohere.com)

Prompt Engineering for ChatGPT | Coursera

Full Stack LLM Bootcamp

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Tools – LangChain, Semantic Kernal, Vector Databases

Plugins

OpenAI ChatGPT plugins

What about ChatGpt Plugins and how they work - Tobias Zwingmann

https://mpost.io/unleashing-the-power-of-chatgpt-with-plugins/

Eyisha Zyer | AI Insider 💡 on Twitter: "The NEW ChatGPT code interpreter PLUGIN is about to change the world of AI forever. Here are the 8 most amazing examples: https://t.co/GdG7LTV6eN" / Twitter

What is ChatGPT Code Interpreter? - by Michael Spencer (substack.com)

5 ChatGPT plugins that aren't worth your time | Mashable

5 ChatGPT plugins that do what they promise | Mashable

Jas Singh on Twitter: "ChatGPT plugins are the new thing in town. With ChatGPT Plugins being the NEW Appstore of AI. Here are the 8 BEST use cases for ChatGPT Plugins you've never heard about (all new): https://t.co/2y1RFBgTAp" / Twitter

This ChatGPT Plugin is Truly Groundbreaking | by Reid Elliot | Predict | Apr, 2023 | Medium

Semantic Kernal

https://devblogs.microsoft.com/semantic-kernel/hello-world/

https://www.youtube.com/watch?v=rJZklKoyTGI&t=13s

Semantic Kernel | The latest news from the Semantic Kernel team for developers (microsoft.com)

UX: Designing for Copilot

Harness the power of AI: Extend Copilot and beyond (microsoft.com)

Build and Maintain your Company Copilot with Azure ML and GPT-4, Q&A (microsoft.com)

https://news.microsoft.com/source/features/ai/microsoft-outlines-framework-for-building-ai-apps-and-copilots-expands-ai-plugin-ecosystem/

https://azure.microsoft.com/en-us/blog/build-next-generation-ai-powered-applications-on-microsoft-azure/

https://github.com/weaviate/recipes/blob/main/integrations/SemanticKernel/RetrievalAugmentedGeneration_Weaviate.ipynb

https://medium.com/@kylia669/llms-and-semantic-kernel-hands-on-full-guide-a8bce666e532

https://medium.com/@jack.a.watts/impersonating-yourself-with-chatgpt-and-microsoft-semantic-kernel-719e08a1b529

johnalexander - https://github.com/JRAlexander/resource-guides/

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Introduction to Vector Embedding

Introducing text and code embeddings (openai.com)

Embeddings - OpenAI API

Transformer Embeddings and Tokenization (vaclavkosar.com)

Vector Embeddings for Developers: The Basics | Pinecone

Embedding projector - visualization of high-dimensional data (tensorflow.org)

openai-cookbook/examples/Customizing_embeddings.ipynb at main · openai/openai-cookbook (github.com)

Introduction to Vector Databases

openai-cookbook/examples/vector_databases/README.md at main · openai/openai-cookbook (github.com)

openai-cookbook/examples/vector_databases/chroma/Using_Chroma_for_embeddings_search.ipynb at main · openai/openai-cookbook (github.com)

openai-cookbook/examples/vector_databases/pinecone/README.md at main · openai/openai-cookbook (github.com)

LangChain

Quickstart Guide — 🦜🔗 LangChain 0.0.177

https://medium.com/technology-hits/overview-of-langchain-9f6362707cd0

Getting Started with LangChain: A Beginner's Guide to Building LLM-Powered Applications | by Leonie Monigatti | Apr, 2023 | Towards Data Science

Interesting and Fun

An example of LLM prompting for programming

Building A Virtual Machine inside ChatGPT (engraved.blog)

How to Run a ChatGPT Alternative on Your Local PC | Tom's Hardware (tomshardware.com)

An AI Guide to Microsoft Build 2023 - Microsoft Community Hub

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