

- [Prompt Engineering ?????????????? - ALPHA Camp](#)
- [????????????? - ???? - ALPHA Camp](#)
- [????? AI ?????????????? YouTube ?? - ALPHA Camp](#)
- [AI?????????AI????????????? - ALPHA Camp](#)

Medium Articles

- [ChiChieh Huang – Medium](#)

Course/HandBook

Google AI Courses for Free

- [Beginner: Introduction to Generative AI Learning Path](#)
- [Machine Learning | Resources | Google for Developers](#)
- [Machine Learning Crash Course](#)

Microsoft

- [Microsoft Learn](#)
- [Generative AI for Beginners \(microsoft.github.io\)](#)

????(NCHC)??

- [????????????Taichung.py 2024/04/23 Meetup, ?????????????????????????????? - YouTube](#)
- [???????LLMs????????? 20231228 - YouTube](#)
- [???????-\[??\]?????RAG????????????????? - YouTube](#)
- [???????-\[??\]?????RAG????????????????? Q&A - YouTube](#)

LLM Tokenizer ???

- [OpenAI Platform](#)
- [The Tokenizer Playground - a Hugging Face Space by Xenova](#)

PyImageSearch ?? (??)

???

????? | iii.org.tw

- ???AI???????
- ???AI???????
- 2023?????AI??-???AI???

Open Source MLOps platform

- [Pezzo](#) - A fully cloud-native and open-source LLMOps platform. Seamlessly observe and monitor your AI operations, troubleshoot issues, save up to 90% on costs and latency, collaborate and manage your prompts in one place, and instantly deliver AI changes.
- [MLflow](#) - Build better models and generative AI apps on a unified, end-to-end, open source MLOps platform

LLM ?????

- [LLM Interview Questions and Answers Hub](#)

Cheat Sheets

Types of AI models

Top 6 Types of AI Models

Machine Learning Models

Description:

Machine learning models learn from labeled or unlabeled data to detect patterns, classify, or predict outcomes. They include supervised, unsupervised, and semi-supervised approaches.

Examples:

- Supervised: Decision Trees, Random Forest, SVM, XGBoost
- Unsupervised: K-Means, DBSCAN, PCA
- Semi-Supervised: Label Propagation, Semi-Supervised SVM

Workflow:



Deep Learning Models

Description:

Deep learning models use multi-layer neural networks to learn complex hierarchical patterns. They excel in handling unstructured data like images, audio, and text.

Examples:

- CNN (for images)
- RNN, LSTM (for sequences)
- Transformers
- GANs
- Autoencoders

Workflow:



Generative Models

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Description:

These models learn the data distribution and generate new data that mimics the original. They're widely used in content creation, image synthesis, and text generation.

Examples:

- GPT-4 (text)
- DALL-E, MidJourney (images)
- MusicLM (audio)
- StyleGAN (faces)
- AlphaCode (code)

Workflow:



Hybrid Models

Description:

Hybrid models combine multiple AI techniques (e.g., rule-based + neural nets) to leverage the strengths of each. They are used where accuracy and control are both critical.

Examples:

- RAG (LLM + Search)
- ML + Rule-based bots
- AutoGPT with tools
- AI chatbots with APIs
- Ensemble Models

Workflow:



NLP Models

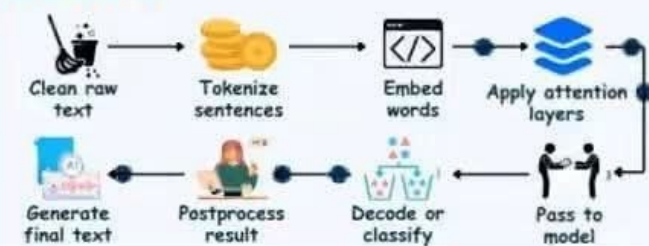
Description:

NLP models process and understand human language. They power applications like chatbots, translators, summarizers, and virtual assistants.

Examples:

- BERT
- GPT-3.5 / GPT-4
- T5
- RoBERTa
- Claude

Workflow:



Computer Vision Models

Description:

These models interpret visual content, detecting patterns and features in images or videos. They're used in everything from facial recognition to medical imaging.

Examples:

- ResNet
- YOLO
- VGGNet
- EfficientNet
- Mask R-CNN

Workflow:



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