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**API**

**OpenAI Python**

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**ML Model Training**

**Transformers**

Transformers offers a vast selection of pre-trained models for carrying out various tasks across different modalities like text, vision, and audio. Through Transformers, users can train and fine-tune any generative AI models.

**PEFT**

Parameter-Efficient Fine-Tuning (PEFT) methods enable efficient adaptation of pre-trained language models (PLMs) to various downstream applications without fine-tuning all the model’s parameters.

**Diffusers**

Diffusers is the go-to library for state-of-the-art pretrained diffusion models for generating images, audio, and even 3D structures of molecules.

**Integrations**

**LangChain**

LangChain is designed to assist in six key areas: prompt management, chains that extend beyond a single LLM call, data-augmented generation, agents, memory management, and evaluation.

**LlamaIndex**

LlamaIndex is a framework for managing data for applications that use Large Language Models. With LlamaIndex, you can easily ingest, manage, and retrieve both private and domain-specific data using natural language.

**User Interface**

**Gradio**

Create UIs for your AI models in Python in a few minutes. You can demo machine learning models to clients, deploy models quickly with shareable links, and interactively debug models using built-in tools.

**Chat UI**

The chat interface uses open-source models such as Llama 2. It is a SvelteKit application that only requires you to connect your API to have your chat app up and running.

**Production**

**OpenLLM**

Run inference with any open-source large-language models, deploy to the cloud or on-premises, and build powerful AI apps.

**Tools for Building GenAI Apps**

There are many open source Python libraries and frameworks available that enable developers to build innovative Generative AI applications, from image and text generation to Autonomous AI.