

Installation and Setup

The LlamaIndex ecosystem is structured using a collection of namespaced python packages.

What this means for users is that `pip install llama-index` comes with a core starter bundle of packages, and additional integrations can be installed as needed.

A complete list of packages and available integrations is available on [LlamaHub](#).

Quickstart Installation from Pip

To get started quickly, you can install with:

```
pip install llama-index
```

This is a starter bundle of packages, containing

- `llama-index-core`
- `llama-index-llms-openai`
- `llama-index-embeddings-openai`
- `llama-index-program-openai`
- `llama-index-question-gen-openai`
- `llama-index-agent-openai`
- `llama-index-readers-file`
- `llama-index-multi-modal-llms-openai`

NOTE: LlamaIndex may download and store local files for various packages (NLTK, HuggingFace, ...). Use the environment variable "LLAMA_INDEX_CACHE_DIR" to control where these files are saved.

Important: OpenAI Environment Setup

By default, we use the OpenAI `gpt-3.5-turbo` model for text generation and `text-embedding-ada-002` for retrieval and embeddings. In order to use this, you must have an `OPENAI_API_KEY` set up as an environment variable. You can obtain an API key by logging into your OpenAI account and [creating a new API key](#).

개인정보 보호 - 약관

**Tip**

You can also [use one of many other available LLMs](#). You may need additional environment keys + tokens setup depending on the LLM provider.

[Check out our OpenAI Starter Example](#)

Custom Installation from Pip

If you aren't using OpenAI, or want a more selective installation, you can install individual packages as needed.

For example, for a local setup with Ollama and HuggingFace embeddings, the installation might look like:

```
pip install llama-index-core llama-index-readers-file llama-index-llms-ollama
llama-index-embeddings-huggingface
```

[Check out our Starter Example with Local Models](#)

A full guide to using and configuring LLMs is available [here](#).

A full guide to using and configuring embedding models is available [here](#).

Installation from Source

Git clone this repository: `git clone https://github.com/run-llama/llama_index.git`. Then do the following:

- [Install poetry](#) - this will help you manage package dependencies
- If you need to run shell commands using Poetry but the shell plugin is not installed, add the plugin by running:

```
poetry self add poetry-plugin-shell
```

- `poetry shell` - this command creates a virtual environment, which keeps installed packages contained to this project
- `pip install -e llama-index-core` - this will install the core package
- (Optional) `poetry install --with dev,docs` - this will install all dependencies needed for most local development

From there, you can install integrations as needed with `pip`, For example:

```
pip install -e llama-index-integrations/readers/llama-index-readers-file  
pip install -e llama-index-integrations/llms/llama-index-llms-ollama
```