

Lab 3 Tavily Search API: Request Guide

Tavily Search is an AI-powered search engine designed to deliver high-quality, real-time web search results. Unlike traditional search engines that prioritize ranking human users, Tavily is optimized for **machine consumption**, making it highly effective for **LLMs (Large Language Models)**.

Step 1: Sign Up for the Tavily API

1. Go to the [Tavily website](#).
2. Click "**Sign Up**" and create an account.
3. After signing up, navigate to the **Overview** section.
4. Locate your **API keys** in the dashboard.
5. A **default API key** should be available. You can either **copy it** or generate a new one if needed.

The free credits should be sufficient, so you don't need to purchase any additional credits.

Step 2: Install Required Dependency

1. Copy the API key into your `.env` file:

```
TAVILY_API_KEY = "Replace your API KEY here"
```

2. **Method 1 (Terminal):**

- Activate your **Virtual Environment (VM)** in the VS Code terminal. (*For instructions on how to activate your VM, refer to Lab 0.*)
- Once your VM is activated, run the following command to install the Tavily package. Use the second option if the default pip version is not python3.10.

```
pip install tavily-python or python3.10 -m pip install tavily-python
```

3. **Method 2 (python Notebook):**

- If you are working in a **Python Notebook** with an activated VM kernel, you can install the package directly by running:

```
!pip install tavily-python
```

👉 Choose either Method 1 (Terminal) or Method 2 (Notebook) to install the package.

By following this guide, you have successfully:

- ✅ **Registered a Tavily Search Account**
- ✅ **Obtained the Tavily Search API Key**
- ✅ **Copied and stored** the API key in the `.env` file
- ✅ **Installed** the required dependencies using `pip` on your **Virtual Machine (VM) terminal**