Google search api creation steps –

**1. Get Your Google API Key**

**Step 1: Go to Google Cloud Console**

https://console.cloud.google.com/

**Step 2: Create a New Project**

* Click the dropdown near the top left → “New Project”
* Give it a name like EcommerceSWOTProject and click **Create**

**Step 3: Enable Programmable Search API**

* In your project, search for: **"Programmable Search Engine API"**
* Click it → then click **"Enable"**

**Step 4: Generate API Key**

* Go to: 🔗 https://console.cloud.google.com/apis/credentials
* Click **“+ Create Credentials” → “API Key”**
* Copy the key (you’ll use this in your Python script as GOOGLE\_API\_KEY)

**2. Get the Search Engine ID (CX)**

**Step 1: Go to Programmable Search Engine**

🔗 https://programmablesearchengine.google.com/about/

**Step 2: Click “Get Started” or “New Search Engine”**

* Under **Sites to Search**, enter:
* Name your search engine
* Click **Create**

**Step 3: Find Your CX ID**

* After creation, go to: 🔗 https://programmablesearchengine.google.com/cse/
* Click the name of your search engine
* Under **Search Engine ID**, you’ll see something like:

This is your SEARCH\_ENGINE\_ID (CX ID).

UV package installer :

Uv configuration –

In windows - powershell -ExecutionPolicy ByPass -c "irm https://astral.sh/uv/install.ps1 | iex"

Official Link : For mac and linux

<https://docs.astral.sh/uv/getting-started/installation/#__tabbed_1_2>

command for virtual env creation

conda create –n env\_name python3.10 –y

conda activate env\_name

pip install –r requirements.txt

If you haven't created a uv-managed project yet, create one:

uv init mcp-server-demo

cd mcp-server-demo

Then add MCP to your project dependencies:

uv add "mcp[cli]"

Alternatively, for projects using pip for dependencies:

pip install "mcp[cli]"

**Running the standalone MCP development tools**

To run the mcp command with uv:

uv run mcp

You can install this server in [Claude Desktop](https://claude.ai/download) and interact with it right away by running:

https://claude.ai/download

mcp install main.py

**A**lternatively, you can test it with the MCP Inspector:

mcp dev main.py

alternate command for running inspector which I have used during recording

npx @modelcontextprotocol/inspector python main.py