# Al Blog Generator

A simplified Al-powered content generator built with Flask and OpenAl.

Given a keyword, it performs mock SEO analysis and generates a blog post in HTML format using GPT models.

It also supports daily scheduled post generation.

### Demo Presentation

ai blog generator interview JianxiaoCai



## Tech Stack

- Python 3.10+
- Flask REST API framework
- OpenAl API For content generation
- APScheduler For daily scheduled post creation
- python-dotenv Environment variable handling

#### 1. Clone the repository

git clone https://github.com/your-username/ai-blog-generator-interview-JianxiaoCai.git
cd ai-blog-generator-interview-JianxiaoCai

#### 2. Create virtual environment and install dependencies

```
python -m venv venv
source venv/bin/activate
pip install -r requirements.txt
```

#### 3. Create .env file with your OpenAl API key

From https://platform.openai.com/docs/overview

OPENAI\_API\_KEY=sk-xxxxxxxxxxxxxxxxxxxxxx

#### 4. Run the app

python app.py

#### 5. API Endpoint

GET /generate?keyword=<your\_keyword>

Example:

curl "http://127.0.0.1:5000/generate?keyword=wireless%20earbuds"

Returns:

```
{
    "keyword": "...",
    "seo": {
        "search_volume": "...",
        "keyword_difficulty": "...",
        "avg_cpc": "..."
    },
    "content": "<!DOCTYPE html>...</html>"
}
```

#### 6. Daily Blog Generation (Scheduler)

The app uses **APScheduler** to generate a blog post once every 24 hours.

- Default keyword: wireless earbuds
- Output is saved in the project root directory as: generated\_<YYYYMMDD\_HHMM>.html

You can test this manually by calling scheduled\_job() inside scheduler.py.

#### 7. Example Output

An example blog post is included here:

example\_wireless\_earbuds.html

This HTML was generated using actual GPT model output, with affiliate link placeholders replaced.



#### Jianxiao Cai

Mail: shawn.jx.cai@gmail.com

LinkedIn | GitHub