Build Your Own Keyword Density Checker Checklist

Step-by-step guide to creating a Python tool for SEO keyword analysis using AI.

Based on YouTube Video naY5cIosrJA by Casey Builds It

Watch the video: *https://www.youtube.com/watch?v=naY5cIosrJA*

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1. Setting Up Your AI Coding Environment

Prepare your workspace and AI tool for code generation.

- ■ Open and load the Cursor AI application.
- ■ Familiarize yourself with the Cursor AI interface.
- ■ Understand how to input plain-English prompts for code generation.

2. Defining the Keyword Checker Tool

Specify the functionality for your keyword density checker.

- ■ Formulate a clear prompt for Cursor AI to build the keyword scanner.
- ■ Describe the desired output: counting keyword occurrences and listing pages.
- ■ Specify the need for a graphical user interface (GUI).

3. Generating and Saving Python Code

Use AI to generate the core Python script and save it.

- ■ Execute the build command in Cursor AI based on your prompt.
- ■ Review the generated Python code for the keyword scanner.
- ■ Save the generated Python script to a file.
- ■ Name the Python file appropriately for your project.

4. Implementing Core Functionality

Ensure the tool can crawl websites and count keywords.

- ■ Verify the web scraping functionality to access website content.
- ■ Confirm the keyword counting logic is correctly implemented.
- ■ Check that the tool can identify keyword occurrences on different pages.

5. Adding Advanced Features and Customization

Enhance the tool with user-configurable options.

- ■ Implement the option to set a maximum number of pages to scan.
- ■ Add functionality for whole-word matching.
- ■ Configure dynamic naming for exported files (domain name and timestamp).

6. Exporting and Organizing Results

Set up the tool to export data in a usable format.

- ■ Ensure results are exported to a clean CSV file.
- ■ Confirm the CSV includes keywords and their corresponding URLs.
- ■ Test the dynamic file naming for exported CSVs.

7. Packaging the Tool for Distribution

Convert your Python script into a standalone executable.

- ■ Use tools to package the Python script into a standalone .exe file.
- ■ Test the .exe file to ensure it runs without requiring Python installation.
- ■ Verify that the executable file functions correctly on different systems.

8. Utilizing the Keyword Checker Tool

Learn how to use your newly built tool for SEO research.

- ■ Download the completed tool from caseybuildsit.com.
- ■ Input a target website URL into the tool.
- ■ Enter the specific keyword you want to track.
- ■ Analyze the results to understand competitor keyword usage.
- ■ Identify content gaps and optimization opportunities on your own site.

Resources & Further Reading

Use these pages while working through the checklist:

Casey Builds It | -
- | caseybuildsit.com
Automate SEO research and competitor analysis with AI-powered Python tools.