

Build Your Own Keyword Density Checker with Python & AI

Create a Python tool to scan websites for keyword density using AI, no coding experience needed.

Based on [Build Your Own Keyword Density Checker With Python Ai No Coding Experience Required](#)
by Casey Builds It

Step 1: Understand the Tool's Purpose

Learn what the keyword density checker does: scans a website, counts keyword occurrences per page, and exports results to a CSV file.

- This tool is designed for SEO research to analyze competitor keyword usage.
- It automates the tedious process of manual page-by-page keyword counting.



Step 2: Generate Core Python Logic with AI

Use an AI coding assistant like Cursor to generate the fundamental Python code from plain-English prompts.

- No prior coding experience is required to follow this AI-assisted build.
- Focus on clear, descriptive prompts to guide the AI.



Step 3: Develop the Website Scanner

Build the functionality for the tool to crawl a given website and count the occurrences of a specified keyword on each page.

- This step involves web scraping fundamentals.
- The tool will identify where and how often keywords are used.



Step 4: Implement Results Export

Configure the tool to export the collected keyword data, including the keyword, its count, and the corresponding URLs, into a clean CSV file.

- Ensure the CSV file is well-organized for easy analysis.
- Consider dynamic naming for exported files using domain and timestamp.



Step 5: Add Practical Features

Incorporate useful options such as setting a maximum number of pages to scan and enabling whole-word matching for more accurate keyword counting.

- These options enhance the tool's flexibility and precision.
- Think about other practical features that would be beneficial for SEO research.



Step 6: Package as a Standalone Executable

Transform the Python script into a standalone .exe file, allowing users to run the tool without needing a Python installation.

- This makes the tool accessible to non-technical users.
- Consider building a simple GUI for user interaction.

Resources & Further Reading

Related guides for this process:

■ Build Your Own Keyword Density Checker (Checklist)

<https://storage.googleapis.com/casey-builds-it-checklists-20260730-ebab2c/casey-builds-it/Checklist/build-your-own-keyword-density-checker-checklist.pdf>

■ Build Your Own Keyword Density Checker (Action Sheet)

<https://storage.googleapis.com/casey-builds-it-checklists-20260730-ebab2c/casey-builds-it/Action%20Sheet/build-your-own-keyword-density-checker-with-python-ai-no-coding-experience-requi-action-sheet.pdf>

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Automate SEO research and gain insights into competitor keyword strategies with AI-assisted coding.