

Build Your Own Keyword Density Checker with Python & AI

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

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 on each page, and exports results to a CSV file for SEO research.

- This tool automates tedious manual research.
- It helps identify content gaps and optimization opportunities.



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, eliminating the need for manual coding.

- Describe your desired functionality clearly in prompts.
- AI can translate natural language into functional code.



Step 3: Develop the Website Scanner

Build the part of the tool that crawls a given website and counts the occurrences of a specified keyword on each individual page.

- Focus on web scraping techniques.
- Ensure accurate counting of keyword mentions.



Step 4: Implement CSV Export

Configure the tool to export the collected keyword counts and corresponding URLs into a clean CSV file for easy analysis.

- Name exported files dynamically using the domain and timestamp.
- Ensure the CSV format is easily readable.



Step 5: Add Practical Options

Incorporate user-friendly features such as setting a maximum number of pages to scan and enabling whole-word matching for more precise results.

- Consider options for flexibility in scanning.
- Whole-word matching prevents counting partial matches.



Step 6: Package as a Standalone Executable

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

- This makes the tool accessible to non-technical users.
- Look into tools like PyInstaller for packaging.



Step 7: Utilize the Tool for SEO Research

Apply the finished keyword density checker to analyze competitor websites, compare keyword usage, and identify optimization strategies.

- Compare your keyword density to competitors.
- Use the insights to improve your own content strategy.

Resources & Further Reading

Related guides for this process:

■ Build Your Own Keyword Density Checker (Checklist)

<https://storage.googleapis.com/casey-builds-it-checklists-20260729-0c6048/casey-builds-it/Checklist/build-your-own-keyword-density-checker-checklist.pdf>

■ Build Your Own Keyword Density Checker with Python & AI (Action Sheet)

<https://storage.googleapis.com/casey-builds-it-checklists-20260729-0c6048/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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AI-assisted coding makes powerful SEO tools accessible without prior programming knowledge.