

Build Your Own Keyword Density Checker with Python & AI

Create a Python tool to analyze keyword density on any website 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 on each page, and exports results to a CSV file.

- This tool is designed for SEO research to identify competitor keyword usage.
- It automates a tedious manual research task.



Step 2: Leverage AI for Code Generation

Use an AI coding assistant like Cursor to generate the core Python logic from plain-English prompts instead of writing code manually.

- This approach allows users without coding experience to build functional tools.



Step 3: Develop the Website Scanner

Build the functionality to crawl a target website and count the occurrences of a specified keyword on each page encountered.

- Understand web scraping fundamentals for content analysis.



Step 4: Implement Results 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 site's domain and a timestamp for organization.



Step 5: Add Practical Options

Incorporate user-friendly options, such as setting a maximum number of pages to scan and enabling whole-word matching for keyword searches.



Step 6: Package as a Standalone Executable

Package the Python script into a standalone .exe file, allowing it to run on any computer without requiring a Python installation.

- This makes the tool accessible to non-technical users.



Step 7: Consider a GUI for Usability

Build a simple graphical user interface (GUI) to make the tool even easier for non-technical users to operate.

Resources & Further Reading

Related guides for this process:

■ Build Your Own Keyword Density Checker (Checklist)

<https://storage.googleapis.com/casey-builds-it-checklists-20260726-47cb55/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-20260726-47cb55/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 with AI-assisted Python development.