

Build Your Own Keyword Density Checker with Python & AI

Create a Python tool to analyze keyword density on any website using AI assistance.

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

Phase 1: Understanding the Tool and its Purpose

- Learn what a keyword density checker does.
- Understand why this tool is important for SEO research.
- Identify who will benefit from this tool.



Phase 2: AI-Assisted Code Generation

- Use Cursor AI to generate the core Python logic.
- Translate plain-English prompts into functional code.



Phase 3: Developing the Website Scanner

- Build a script to crawl websites.
- Implement functionality to count keyword occurrences per page.



Phase 4: Data Export and Organization

- Export scan results to a CSV file.
- Include keywords and corresponding URLs in the export.
- Name exported files dynamically using domain and timestamp.



Phase 5: Adding Practical Features

- Incorporate options like maximum pages to scan.
- Implement whole-word matching functionality.



Phase 6: User Interface and Packaging

- Build a simple GUI for non-technical users.
- Package the Python script into a standalone .exe file.
- Ensure the tool runs without a Python installation.



Phase 7: Applying the Tool

- Use the tool for SEO and competitor research.
- Analyze content gaps and optimization opportunities.
- Automate repetitive research tasks.

Resources & Further Reading

Related guides for this timeline:

■ 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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