

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 Goal

- Grasp the purpose of a keyword density checker for SEO research.
- Understand how the tool scans websites and counts keywords.
- Recognize the benefits of automating this research task.



Phase 2: AI-Assisted Code Generation

- Utilize Cursor AI to generate core Python logic from plain-English prompts.
- Learn how AI can translate natural language into functional code.



Phase 3: Developing the Website Scanner

- Build the core functionality to crawl a website.
- Implement logic to count keyword occurrences on each page.



Phase 4: Data Export and Options

- Configure the tool to export results to a CSV file.
- Add practical options like setting a maximum number of pages to scan.
- Implement whole-word matching for keyword searches.



Phase 5: Packaging and Distribution

- Package the Python script into a standalone .exe file.
- Enable the tool to run without requiring a Python installation.
- Implement dynamic naming for exported files using domain and timestamp.



Phase 6: Application and Further Learning

- Understand the practical applications for SEO and competitor research.
- Explore AI-assisted coding for automating repetitive tasks.
- Consider building a simple GUI for user-friendliness.

Resources & Further Reading

Related guides for this timeline:

■ Build Your Own Keyword Density Checker (Checklist)

<https://storage.googleapis.com/casey-builds-it-checklists-20260731-e718c1/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-20260731-e718c1/casey-builds-it/Action%20Sheet/build-your-own-keyword-density-checker-with-python-ai-no-coding-experience-require-action-sheet.pdf>

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Automate SEO research and gain competitor insights with AI-powered Python tools.