

Build Your Own Keyword Density Checker with Python & AI

Create an AI-powered tool to analyze competitor keyword usage without coding.

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.
- Understand how the tool scans websites and counts keywords.
- Recognize the benefits for competitor analysis and content optimization.



Phase 2: AI-Assisted Code Generation

- Learn to use Cursor AI for generating Python logic.
- Formulate plain-English prompts for the AI.
- Generate the core Python code for the tool.



Phase 3: Website Crawling and Counting

- Implement the website scanner functionality.
- Develop logic to count keyword occurrences per page.
- Integrate web scraping fundamentals for content analysis.



Phase 4: Data Export and Options

- Set up CSV file export for results.
- Include options like maximum pages to scan.
- Implement whole-word matching functionality.



Phase 5: User Interface and Packaging

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



Phase 6: File Organization and Refinement

- Implement dynamic file naming using domain and timestamp.

- Test the tool for ease of organization.
- Review and refine the final packaged tool.

Resources & Further Reading

Related guides for this timeline:

■ Build Your Own Keyword Density Checker (Checklist)

<https://storage.googleapis.com/casey-builds-it-checklists-20260722-eb4ee4/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-20260722-eb4ee4/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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