

Build Your Own Keyword Density Checker with Python & AI

A roadmap to creating an AI-powered SEO research tool without coding experience.

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

Phase 1: Understanding the Goal

- Define the purpose of the keyword density checker.
- Understand why this tool is important for SEO research.
- Identify the target audience for the tool.



Phase 2: AI-Assisted Code Generation

- Utilize Cursor AI to generate core Python logic.
- Translate plain-English prompts into functional code.
- Leverage AI for tasks typically requiring coding expertise.



Phase 3: Website Crawling and Counting

- Develop a scanner to crawl websites.
- Implement logic to count keyword occurrences per page.
- Integrate web scraping fundamentals for content analysis.



Phase 4: Data Export and Organization

- Export scan results to a CSV file.
- List keywords and their corresponding URLs in the output.
- Implement dynamic file naming using domain and timestamp.



Phase 5: Adding Practical Features

- Incorporate options like maximum pages to scan.
- Add functionality for whole-word matching.
- Consider building a simple GUI for user interaction.



Phase 6: Packaging and Distribution

- Package the Python script into a standalone .exe file.

- Ensure the tool runs without requiring a Python installation.
- Prepare the tool for easy use by non-technical team members.



Phase 7: Testing and Refinement

- Test the tool's functionality on various websites.
- Verify the accuracy of keyword counts and exports.
- Make any necessary adjustments based on testing.

Resources & Further Reading

Related guides for this timeline:

■ Build Your Own Keyword Density Checker (Checklist)

<https://storage.googleapis.com/casey-builds-it-checklists-20260725-a3cd59/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-20260725-a3cd59/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 and gain competitive insights with AI-assisted Python development.