

Website Building Workshop

Introduction:

This document was prepared by **Avanith Kanamarlapudi** and peer-reviewed by **Rami Huu Nguyen, Lakshmi Pranathi Vutla**, and **Ila Lama** at **AI Fantastic**.

The purpose of this document is to share knowledge and provide a clear, step-by-step guide on how anyone can build a website without prior coding experience. By leveraging tools like **ChatGPT** alongside simple workflows in VS Code, we show how prompts can be transformed into working code, visualizations, and a final website.

Workshop:

With the help of **ChatGPT**, we transformed the **Social Media Engagement** dataset from **Kaggle** into a complete data analysis and visualization project. We began by exploring the dataset in Python, creating new metrics such as total engagement and generating meaningful graphs on platform performance, post types, sentiment, and timing. These visualizations were saved and prepared as the foundation for storytelling.

Next, ChatGPT guided us in building a **stylish website** using HTML, CSS, and JavaScript, where we showcased the graphs in a scrollable narrative format. We customized the design with a dark navy and turquoise color palette and added interactive elements such as typing animations, glowing headings, scroll reveal effects, lightbox zoom for charts, and a footer crediting our team, AI Fantastic. Finally, we published the project through GitHub Pages, making the analysis accessible online and demonstrating how AI can simplify the process of going from raw data to a polished, shareable website—even without prior coding knowledge.

Step-by-step workflow:

Step 1:

- **Task:** Define the overall goal of the project.
- **Prompt:** My goal is to analyze a dataset in Python, generate meaningful visualizations, and then showcase them in a stylish website using HTML, CSS, and JavaScript. Can you guide me step by step?

Step 2:

- **Task:** Share the dataset and ask ChatGPT for help with data analysis.

- **Prompt:** I have a dataset from Kaggle called Social Media Engagement. Can you help me perform data analysis on it? Please guide me through the steps, starting with how to load and explore the dataset in Python.

Step 3:

- **Task:** Check the dataset structure and list all available columns.
- **Prompt:** Here is the CSV file I'm working with. Can you please show me how to load it in Python and print the first few rows, along with the column names and their data types?

Step 4:

- **Task:** Ask ChatGPT what kinds of visualizations can be created from the dataset.
- **Prompt:** Now that we know the columns in this dataset (**post_id, platform, post_type, post_time, likes, comments, shares, post_day, sentiment_score**), what are some meaningful graphs or visualizations I can create in Python to analyze social media engagement?

Step 5:

- **Task:** After identifying possible graphs, use Python to create them, save them in a folder, and then ask ChatGPT to help build a website to display them.
- **Prompt:** I have generated the graphs you suggested using Python and saved all of them in a folder. Here are their file paths. Can you now help me build a website using HTML, CSS, and JavaScript to showcase these graphs? Please use this link as inspiration: <INSERT_REFERENCE_LINK>.

Step 6:

- **Task:** Specify the color palette for the website design.
- **Prompt:** For the website design, please use this color palette: deep navy/black for the background, soft cyan-white for text, muted gray-blue for secondary text, and bright turquoise with cyan and teal accents for highlights and headings

Step 7:

- **Task:** After receiving a basic website from ChatGPT, request enhancements and interactive features.
- **Prompt:** The website you generated looks good, but I'd like to add more interactive and aesthetic elements. Please update the website to include:
 - a. Typing animation for the title
 - b. Blinking cursor
 - c. Animated background blobs
 - d. Buttons: 'View Dataset' (Kaggle) and later 'View Notebook' (GitHub)
 - e. Hashtags as glowing pills
 - f. Lightbox effect (click any chart → zoom)
 - g. Scroll reveal animations
 - h. Custom glowing cursor (dot + ring)

- i. Magnetic buttons with ripple hover effect
- j. A progress bar with a back-to-top button
- k. Glow effect on the heading when hovered.

Step 8:

- **Task:** Fix alignment issues by centering all sections of the website.
- **Prompt:** The website looks almost perfect, but some sections are not properly centered. Can you adjust the HTML and CSS so that all content, including the 'About Dataset' and 'Analysis' sections, is neatly aligned in the center? If needed, suggest CSS overrides I can add at the end of my stylesheet to fix this.
- **Limitation:** However, I had to add the CSS manually in some places to fix it perfectly.

Step 9:

- **Task:** Add a footer section with team credits.
- **Prompt:** Please add a footer section at the bottom of the website that says: 'Made with ❤️ by AI Fantastic' and list the team members' names: Avanith Kanamarlapudi, Rami Huu Nguyen, Lakshmi Pranathi Vutla, and Ila Lama.

Step 10:

- **Task:** Get the GitHub Pages URL after pushing and enabling Pages.
- **Prompt:** I've pushed everything to GitHub and enabled GitHub Pages. My index.html is in the repo root (Avanith12/Data-Analysis-Social_media_engagement, main branch), and it's building now. Can you please give me the github.io link?

Final Outcome: Website & Screenshot:

- You can find the website [here](#)



Call to Action:

- Have questions, feedback, or ideas to collaborate?
- Feel free to reach out — I'd be glad to discuss further!
- [Email](#), [LinkedIn](#)
- [AI Fantastic Team](#): Let's connect and grow together!
**#avanithkanamarlapudi #boston #aifantastic #DataAnalysis #SocialMediaTrends
#DataVisualization**

Disclosure:

- Parts of this project were created with the assistance of ChatGPT.
- I used prompts to plan the workflow, generate example code/snippets, and refine wording.
- I also used ChatGPT to review and improve grammar/clarity.
- All analysis decisions and final edits are my own.