

Write-Up: (I did not use AI for this write-up)

Generative AI is the newest and perhaps most exciting tool for anyone who regularly works with computers. Imagine you've just been given an immensely large document of unorganized information that you've been tasked with sorting. Normally this would be a grueling task, how would you even start this sorting process? What categories would you use? This is where a tool like ChatGPT can completely change how you'd approach this problem. By giving your unorganized data to this software and suggesting that it needs to be sorted in a convenient manner (you don't even have to supply the categories), it will turn the task of data organization from a boring task to a solved problem. Not just in instances like this, which relate heavily to computer science, ChatGPT can also help with tasks like answering questions, providing explanations, generating text based on prompts, and assisting with brainstorming. On the surface these seem like vague categories, but instead they speak to the versatility of the software and its many useful applications.

Generative AI should be thought of as a tool that can be used by computer and software engineers to help improve the efficiency of their work. There is a lot of stigma that surrounds using AI, especially in school, and it is warranted in some cases. While using AI in school can help you finish work faster, it doesn't help you learn in any meaningful way. I believe that once you've learned the fundamentals of your field and have developed significant skills, you shouldn't shy away from using AI to help expedite your deadlines.

For my coding example, I chose to show how AI can assist in improving the workflow. I did not choose a distinct, specific example that relates to a company, but instead took a step back and decided to show how ChatGPT can assist in the data organization process, which is applicable to many different fields. I wanted to find a large document somewhere that contained a large set of unorganized data, but I had difficulty finding one. Instead, I just had ChatGPT itself generate unorganized data. The scale at which I conducted this is relatively small when compared to the data that huge companies deal with, but it is still applicable. When prompted, ChatGPT was able to organize this data into meaningful categories that could be more easily manipulated. I also instructed it to explain what each section of the data could be useful for. To make all this more presentable, I even had ChatGPT create a simple website to display all of this information, which took a small amount of time compared to making it from scratch.

Chat Logs: <https://chat.openai.com/share/9bb484d3-90ab-4102-9cbc-ebcb5fe65e66>