

# **SDS PODCAST**

## **EPISODE 660**

### **FIVE MINUTE FRIDAY:**

### **FIVE WAYS TO USE**

### **CHATGPT FOR DATA**

### **SCIENCE**



(00:03):

This is Five-Minute Friday with Five Ways to use ChatGPT for Data Science.

(00:19):

Back in Episode #646, we focused on how anyone can extract commercial value from ChatGPT today — whether ye be a technical data science practitioner or not. In today's episode, it's exclusively the technical practitioners' turn: In today's episode, I've got five specific ways that ChatGPT can be used for data science.

(00:39):

Use case #1 is code generation. While ChatGPT was designed primarily as a tool for generating natural language - while, in contrast, OpenAI's Codex algorithm was designed explicitly for generating code — you can hear all about it in Episode #584) - the friendly, conversational UI of ChatGPT nevertheless comes in handy for rapidly generating code. And it can do so in all of the primary software languages for data science, including Python, R, and SQL. ChatGPT's code is not always going to be perfect, but for quick ideas on how you could be extracting features from your data, implementing an algorithm, or creating a data visualization, any of these kinds of things, ChatGPT is a great tool for getting started. All right, so that's use case #1, code generation.

(01:25):

Use case #2 is translating code between programming languages. Not only can ChatGPT convert your natural-language input into code, it can also translate between programming languages. So, if you, for example, are expert at Python but unfamiliar with an R code snippet you found online that you'd like to understand and implement in Python, you could ask ChatGPT to convert the R code into Python for you. Because ChatGPT has training data from many different programming languages, you can now



convert perhaps any unfamiliar code you come across into a familiar target programming language of your choice. All right, so that was 2, translating code between programming languages.

(02:07):

Use case #3 is code troubleshooting. Not only can ChatGPT help you with generating code, you can use it to explain errors that you're coming across and provide suggestions as to how to fix it. You can even request ChatGPT to rewrite your code for you so that it's bug-free. All right, so use case #3 was code troubleshooting.

(02:26):

Use case #4 is providing library suggestions. In Python or R, there are countless open-source libraries of code available to you. With ChatGPT, you can now quickly identify which library or libraries are best-suited to a particular task you'd like to perform with your code.

(02:45):

And finally, use case #5 is article summarization. A seemingly endless number of fascinating articles on machine learning innovations are published on ArXiv each week. Poring through each of the articles that interests you is likely to be impossible, but with ChatGPT you can instantly have articles summarized and key information extracted, making it much easier for you to stay on top of the latest data science developments.

(03:10):

All right, I hope you found some of these ChatGPT-for-data-science use-cases to be helpful. To recap they are: 1. Code generation, 2. Translating code between languages, 3. Code troubleshooting, 4. Providing library suggestions, and 5. Article summarization.



(03:28):

Thanks to Kirill Eremenko, founder and long-time host of the SuperDataScience Podcast, for suggesting these tips to me for an episode. He's always full of great ideas. Ok, that's it for Five-Minute Friday today. Until next time, keep on rockin' it out there, folks, and I'm looking forward to enjoying another round of the SuperDataScience podcast with you very soon.