# *Instructor Prep-sheet:*

# **Leveraging Generative AI for Data Scientists Instructor Demo**

## **TL;DR:**

This prep-sheet is designed to give you an idea of how to conduct your live ChatGPT demonstration. A few things to remember:

1. Do a dry run of your demo before you are live and in front of students
2. Be prepared for slight variance in ChatGPT’s outputs each time you do the demo
3. Highlight the impressive capabilities of ChatGPT, along with its limitations!

* *If you end up with a demo that was particularly interesting, please share the link* [*here*](https://docs.google.com/spreadsheets/d/1eWa3s_gkPYEfLKoBXG-83LErmMJ60elgCjuePFlPo4Y/edit#gid=0) *along with a short description!*

## **Sample Materials:**

* [Sample ChatGPT Thread with Analysis](https://docs.google.com/document/d/1tkbkE_7opV78_z_GGC8yBYsiNp1QjwlJKuoq8Crsd10/edit?usp=drive_link)

## **Preparation:**

* Review the [sample ChatGPT thread](https://docs.google.com/document/d/1tkbkE_7opV78_z_GGC8yBYsiNp1QjwlJKuoq8Crsd10/edit?usp=drive_link) in **detail**
  + This is an example of how you can structure the demo.
  + It is recommended to start the demo with the same prompt every time.
  + At the end of the day this is your demo - take it in whatever direction you find most impactful based on your students and teaching style
* Login to [ChatGPT](https://chat.openai.com/) (you will just use the free version for this demo)

## **Instructor Demo Outline:**

* *This is a simplified outline of* [*this sample ChatGPT thread*](https://docs.google.com/document/d/1tkbkE_7opV78_z_GGC8yBYsiNp1QjwlJKuoq8Crsd10/edit?usp=drive_link) *in which a user asks ChatGPT to help them complete a data science task.*
* *You can base your demonstration off of this sample, or come up with your own.*
* *If you decide to come up with your own, be sure to highlight the impressive capabilities of the tool, as well as the limitations.*
* *It is also important to make clear the need for the user to be a skilled data scientist in order to get the most out of the tool - ChatGPT is not a replacement for a good data scientist!*

1. **Query:**
   1. User asks for code to build an OLS model using statsmodels and the dietox dataset.
2. **Response:**
   1. ChatGPT provides example code to build the OLS model using statsmodels and the dietox dataset.
3. **Analysis of the response:**
   1. User encounters an SSL certificate verification error.
   2. ChatGPT suggests using the certifi package, but it leads to a new error.
4. **Next Query to ChatGPT:**
   1. User asks for help to fix the new error.
5. **Response:**
   1. ChatGPT acknowledges the issue and provides updated code to disable SSL certificate verification.
6. **Analysis of the response:**
   1. User encounters a dataset not found error.
7. **Next Query to ChatGPT:**
   1. User asks for assistance in resolving the dataset not found error.
8. **Response:**
   1. ChatGPT apologizes and suggests an alternative solution of loading the dataset from a local file.
9. **Final remark:**
   1. User emphasizes that ChatGPT lacks proper knowledge and provides a modified code to fix the issues and train the OLS model successfully.