To package the Python code as a standalone executable, you can use the pyinstaller package. Follow these steps:

Install pyinstaller if you haven't already, using pip:

pip install pyinstaller

Save your Python code in a file, e.g., data\_analysis.py.

Open a terminal (or command prompt) and navigate to the directory containing your data\_analysis.py script.

Run the following command to create the standalone executable:

pyinstaller --onefile data\_analysis.py

This command will create a standalone executable in the dist folder within the current directory.

(Optional) If you want to create a standalone executable without a console window, use the --noconsole option:

pyinstaller --onefile --noconsole data\_analysis.py

This option is useful for GUI applications, like yours, where you don't want a console window to appear.

You'll find the executable in the dist folder. You can distribute this file to users, and they can run it without needing to install Python or any dependencies.

Note: The resulting executable will be platform-specific, so you'll need to create separate executables for Windows, macOS, or Linux if you want to support multiple platforms. To do this, simply run the pyinstaller command on the target platform.