

-Project: Sanitized CSV Creator
-Version: 1.0
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Purpose

To create an easy way for data scientists to share code without exposing sensitive data.

This project will allow the user to create sanitized CSVs automatically, given any CSVs present.

This project does not intend to create CSVs tailored to what a user might need, though an `example_csv_creator` script is provided that one can model off of, if desired.

If certain columns are auto-sanitized in the result that you'd have liked preserved, no worries! The driver itself has sanitization options you can easily disable/enable.

The program also creates the sanitized CSVs separate from your original CSVs, so you can open both in a sheet editor like Excel and simply copy the original values into the sanitized version, where desired.

Just be sure to hide your original CSVs before sending your project to anyone ;)

Files Included

```
+sanitized_csv_project.zip
|
|+++README.txt (or README.pdf if you prefer bolding!)
|
|+++setup.py
|    ONE primary way to install needed modules (discussed in next section)
|
|+++requirements.txt
|    ANOTHER good way to install needed modules (discussed in next section)
|
|+++driver.py
|    The primary program you'll likely want to run. Creates sanitized CSVs off all existing local
|    CSVs.
|    You can edit the True/False values directly here to choose what is/isn't sanitized.
|
|+++example_csv_creator.py
|    Creates two example CSVs, if you'd like extra resources seeing how the program works.
|
|+++evaluator.py
|    During testing, I found it useful to be able to see what has been sanitized, without
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needing to open up both the original and sanitized CSVs. In a terminal environment, this program prints what columns are differentiated, or sanitized. I've left this in here just in case you'd like to use it :)

+++sanitization_pack

+++++++auto_detector.py

The backbone responsible for automatically grabbing CSV files and applying sanitization functions -- creating new sanitized CSVs.

+++++++functions.py

The actual sanitization functions invoked by our auto_detector and example_csv_creator

What Is Needed to Run This Program

- A. A CSV file in the same folder.
- B. Python3 interpreter in a terminal/shell environment

C. INSTALLING MODULES

I have tried to make this as easy as possible!

- 1.) IF you have PYTHON 3.6+ and SETUPTOOLS installed:

python3 setup.py install

- 2.) IF you have PYTHON 3.4+ and a pip 9+ that corresponds to python3

pip install -r requirements.txt

The above contains two easy ways to get everything you need, that should work on most python3 distributions.

We'll now proceed to the operating instructions.

If you are still having trouble, please peer down into the Further Help section to ensure you have a working environment and can run one of the above.

Operating Instructions

WITH ALL MODULES INSTALLED (See Section C. From Above):

python3 driver.py

Yup. That's all there is to it.

As mentioned, you can edit the sanitization options directly in the driver.

If you want some clear example CSVs, feel free to run the `example_csv_creator`.

FURTHER HELP IF NEEDED

If you are here, neither of the two installation methods worked for you.
You may have been missing `setuptools`, `pip`, or had an insufficient python version.
This section will detail one way you can get back on track.

1.) Install Anaconda

<https://www.anaconda.com/distribution/#download-section>

2.) Once fully installed, you should have a recent python3.7+ distribution, along with `pip` and `setuptools`

Which means..

python3 setup.py install

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### *EVEN FURTHER HELP*

If somehow, even after all of the above, you *\*still\** have trouble, then on the command line, run:

**conda create -n test\_env python=3.6**

**conda activate test\_env**

**python setup.py install**

You should now be able to proceed to the Operating Instructions section.

WHEN YOU ARE DONE RUNNING THE DRIVER PROGRAM SEEN BELOW, feel free to:

**conda deactivate**

You can always reactivate the virtual conda environment later via:

**conda activate test\_env**

If you don't plan on reusing this program, you can delete the environment via:

**conda env remove -n test\_env**

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### *Additional Remarks*

Though I've created many tools and projects, this is the first one I'm releasing publicly. If people find it useful enough, I'll clean up a bit and go the extra distance to make it pip-able, and offer additional support.

And of course, if you find any bugs or issues, dislike or like this design, please let me know! I can only grow with the feedback provided. Thank you for your time and for using this program. Hopefully it proves beneficial

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END