Lab 1: Environment Setup and Data Augmentation

Part 1: Environment Setup

1. Download conda, a Python virtual environment manager
   https://docs.conda.io/en/latest/miniconda.html
2. Create a new conda environment in your CLI (terminal if macOS, anaconda3 prompt if windows) with this command:
   conda create --name dave3625
3. Activate the environment with this command:
   conda activate dave3625
4. Download the python packages pandas, numpy, matplotlib and scipy with the following commands:
   conda config --add channels conda-forge
   conda config --set channel_priority strict
   conda install pandas numpy matplotlib scipy jupyter notebook ipykernel
5. Download Visual Studio Code from https://code.visualstudio.com/
6. Download the Jupyter extension for VSCode in the "Extensions" menu on the left inside Visual Studio Code.
7. Download the official Python extension for VSCode
8. Create a new jupyter notebook by creating a file with a .ipynb filename extension. (e.g. new_notebook.ipynb)
9. (If any popups appear asking for downloads, accept them)
10. Open the notebook file in Visual Studio Code and select the "dave3625" kernel in the top right