Seaborn is a package that converts data into graphs. Its plotting functions interpret data sets and then automatically convert those into graphs. It offers many options for representing different types of relationships between data. Seaborn can display statistical estimation, distribution, and dot plots. I’m majoring in chemistry, which might tie in well with this. If I need to show many results in an experiment, this package could easily create a graph for me.

NumPy is a very strong tool for mathematics. It can be used in beginner projects or the most recent research and development. It can compute linear algebra, matrices, and even multi-dimensional data. Perhaps NumPy could be useful for more complex chemistry such as quantum chemistry which includes molecular orbitals and other atomic-level studies. These branches of chemistry almost exclusively use high-level mathematics.

PyBrain is a machine-learning library that can use algorithms that train/test networks, and datasets. It basically trains data on a network and classifies the outputs. The tested data can then be compared to the trained data to see if they match. I guess I could use this toolkit if I ever need to work with datasets that need to go through a network.

Pyglet is a multimedia library for python and is useful for the development of video games. It includes easy implementation of windowing, OpenGL graphics, image and video loading, and sound/music. Pylet is more focused on graphics and rendering, which, if I ever decide to make a videogame, could be quite useful.

OpenCV is a computer vision package that can be used for facial recognition, robotics, and augmented reality. Its main language is C++, but it can be adapted to Python. It would be cool to build a robot that could drive around while observing its surroundings and mapping out its own path. Maybe it could ride around and say hello to people with facial recognition.