1 Setting up your Environment

The ML tools we use in this class are Python 3 (not 2) in a Jupyter Notebook with various libraries such as numpy, matplotlib, pandas, and scikit-learn. Since each students’ laptop or desktop computer is different, this assignment is an exercise in using Google (asking classmates is okay too) to figure out how to install these various tools. Python is by far the most widely used programming language for machine learning. Its machine learning libraries are the most mature and well-documented. Other languages such as R are less-common in industry, but more common in academia and among statisticians. Today, almost every programming language has nascent machine learning libraries, but Python is still king.

(a) Install the latest version of Python 3 Try running python3 on your command line, it might already be installed.

(b) Install Jupyter Notebook Launch Jupyter Notebook and create a new notebook using the Python 3 kernel. Paste this code: print("hello world") and run the cell as a sanity check.

(c) Install/import libraries, run the cell, and take a screenshot. I recommend using pip or pip3 to install these libraries. You will have to restart Jupyter Notebook to pick up the changes. Make sure there are no errors. Take a screenshot showing you’ve successfully installed and imported the libraries like the image below:

```
In [1]:
1: %matplotlib inline
2: import numpy as np
3: import matplotlib.pyplot as plt
4: import pandas as pd
5: import sklearn
6: from sklearn.datasets import make_classification
7: import seaborn as sns
```

2 Deliverables

Complete the tasks above send a screenshot to my faculty email address: conradkennington@boisestate.edu by the due date.