Intro to Python Lecture Outline

▼ "Hello World."

1. Installing Python if needed

   - Check the version you have

     ```
     >> python --version
     ```

   - Anaconda

   - Version of Python (Python 2 vs. Python 3

2. Quick Example showing the basics

   - Commenting

   - Print statement

   - Simple Math

▼ Data Types

1. Str, Int, float, lists, tuples, range function, boolean, etc...

▼ If Then Statements

▼ For Loops

▼ Functions

▼ Modules

1. Importing

2. Installing using pip

3. Conda disclaimer

▼ Classes

▼ Common modules

    1. Numpy

    2. Pandas

    3. Sklearn

    4. Matplotlib

    5. Functionality withing each package

    6. Show how to search references for certain packages.

▼ IDE's

    1. Atom

    2. Visual Studio

    3. Spyder

       • Similar to MATLAB

    4. Pycharm

    5. Jupyter Notebooks

       • Great for prototyping code.

    6. Ipython

▼ Resources

    1. YouTube channels

    2. websites/blogs