95-888: Data Focused Python Mandar Limaye (mlimaye)

Spring 2020 Steffie Rego (srego)

Team 10 (A4) Shubham Lalwani (splalwan)

**README**

**==========================================================**

**Application Name**

PiedPiper Tracker by PiedPiper InvSolutions

**Description**

In times of COVID pandemic our product takes into consideration unbiased pandemic and market data to generate comparative & predictive analytics for our investors.

**Installation**

**A. Python Requirement**

Our project has ‘.py’ files that can be run by any Python IDE. The easiest way to install all the necessary software to run the application would be installation of Anaconda. Use the following link to download and install the latest version of Anaconda on your machine:

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

**A. Library/Module Requirement**

Users can run the PiedPiper application through any Python IDE (Jupyter notebook, Spyder, IDLE). The application does not require users to install any additional Python modules beyond what Anaconda provides. However, in case you have customized your Python settings, kindly make sure following libraries/modules are installed on your system:

* pandas
* numpy
* time
* datetime
* urllib
* bs4
* requests
* dateutil
* functools
* matplotlib
* sklearn
* warnings

If you need to install any library/module, ensure you have Python 3 and pip installed and run the following command:

* For Windows: python -m pip install PackageName
* For Mac: pip install PackageName

**Usage**

This section gives a brief summary on how to run the application. Once you have completed the above steps, you are now ready to run PiedPiper InvSolutions application.

Follow a few simple steps to use our product:

1. Open your Anaconda Command Prompt or any other command line application where you can run python commands.
2. Change your current working directory to the location of the project folder

“…..\DFP\_A4\_Group10”

1. Run the included python file Group10\_PiedPiperTracker.py. This can be done with the following command: python Group10\_PiedPiperTracker.py
2. Alternatively, you can also use Jupyter notebook, Spyder, IDLE to run the Group10\_PiedPiperTracker.py
3. In case you are using the previously downloaded latest data, kindly make sure that the excel file is the same working directory folder.

If the above command runs successfully you should be able to see an interactive command line menu presenting you with available on the PiedPiper InvSolutions application.

**Project Demo Video**: <https://www.youtube.com/watch?v=9y21iuttuVY>