**Installation of ML Libraries**

Please follow the steps to download and install the ML packages that you need in this course.

**Step 1:** Download and install Anaconda Individual Edition\*

<https://www.anaconda.com/products/distribution>

**Step 2:** After installation, click Start and search for Anaconda3. Click Anaconda Prompt to open the terminal. Type the following commands to install Tensorflow (for deep learning) and other packages.

conda install -c conda-forge tensorflow

conda install -c conda-forge yfinance

conda install -c conda-forge imbalanced-learn

conda install -c conda-forge xgboost

conda install -c conda-forge missingno

conda install -c conda-forge empyrical

conda install -c conda-forge tensorflow-probability

conda install -c conda-forge stable-baselines3

conda install pytorch torchvision torchaudio cpuonly -c pytorch

pip install arch

**Step 3:** Type the following commands to clone the repository of “costcla” (for cost sensitive learning) into the hard drive and then install the package from the cloned repository. By doing so, you can modify the codes of that package later if necessary.

conda install -c anaconda git

git clone https://github.com/albahnsen/CostSensitiveClassification.git

pip install --editable CostSensitiveClassification

**Step 4:** Type the following commands to clone the repository of “FinRL” (for stock trading using reinforcement learning) into the hard drive and then install the package from the cloned repository. By doing so, you can modify the codes of that package later if necessary.

git clone <https://github.com/AI4Finance-Foundation/FinRL.git>

pip install --editable FinRL

**Step 5:** When you finish all the installation above, type “conda list” to see what have been installed.

**Step 6:** Type “jupyter notebook” in the Anaconda Prompt terminal. A web page will prompt out. On the top right corner, click New and then Python 3. Now you can start writing Python codes.

\*If you are using macOS, please refer to the following links on how to install Anaconda.

[https://docs.anaconda.com/anaconda/install/mac-os/#](https://docs.anaconda.com/anaconda/install/mac-os/)