LINUX USERS

Follow the below steps to setup R packages in Anaconda with VS Code and use in Jupyter Notebook for Linux User:

1. Conda create environment python=3.7
2. Conda activate
3. conda install -c r r-base
4. conda install -c conda-forge rpy2
5. conda install -c conda-forge notebook
6. conda install -c conda-forge r-tsdist

Then test the following lines of code:

```
import rpy2
import rpy2.robjects from rpy2.robjects.packages
import importr TSdist = importr('TSdist')
 train = [0,1,2,3]
test = [3,4,5]
dist = TSdist.DTWDistance(train, test)
```

Result: All lines of code run successfully and DTW distance is returned

Next: Activate R console in rpy conda environment and install required R package. For example install.packages('otsad') for EWMA control charts.

After that

Pytorch installation –

conda install pytorch torchvision -c pytorch

Scikit learn

pip install -U scikit-learn

Plotly installation

Pip install plotly

WINDOWS USERS

Follow the below steps to setup R packages in Anaconda with VS Code and use in Jupyter Notebook for Windows User:

1. Install R using the link https://cran.r-project.org/bin/windows/base/ or whichever is the latest version.
2. Set up system environment variable "R_HOME" with path to R folder and add the path to the bin folder to the Path variable.
3. Restart the PC.
4. Install Anaconda and go to Environment -> create(bottom left) -> Select Name -> python version.

5. Open the terminal by using the Green arrow (right side of the environment name) ->open terminal and enter the following commands:
   conda install -c conda-forge rpy2
   conda install -c conda-forge notebook

6. To download the R packages click on the R shortcut on the desktop and enter the following commands-
   install.packages("TSdist")
   install.packages('otsad')

7. Now check the installation using the following code on terminal:
   import rpy2
   import rpy2.robjects from rpy2.robjects.packages
   import importr TSdist = importr('TSdist')
   train = [0,1,2,3]
   test = [3,4,5]
   dist = TSdist.DTWDistance(train, test)

8. Install remaining packages:
   conda install pytorch torchvision -c pytorch [Pytorch]
   pip install -U scikit-learn [scikitlearn]
   pip install pandas [Pandas]
   pip install plotly [Plotly]