

Python setup in R with Reticulate

Business Science

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2 Steps to Python

With only 2 steps, we are able to use Python in R!

Step 1 – Reticulate Setup

Fire up an R Markdown document and load *tidyverse* and *reticulate*:

1. *tidyverse* – Loads the core data wrangling and visualization packages needed to work in R.
2. *reticulate* – The key link between R and Python.

Step 2 – Reticulate Setup

Next, we need to make sure we have the Python Environment setup that we want to use. For Python Environments, we will use Anaconda (Conda), a python environment management tool specifically developed for data scientists.

R code chunk in reading

```
library(tidyverse)
library(reticulate)
```

```
use_condaenv("py3.8", required = TRUE)
```

```
py_run_string("import os as os")
py_run_string("os.environ['QT_QPA_PLATFORM_PLUGIN_PATH'] = 'C:/Users/2015524/Anaconda3/envs/py3.8/Library/plugins/platforms'")
```

Create a New Python Environment

- Run the following code in **your conda terminal**.

```
conda create -n py3.8 python=3.8 scikit-learn pandas numpy matplotlib
```

This code does the following:

1. Creates a new Python environment called “py3.8”
2. Installs python version 3.8
3. Installs the latest versions of scikit-learn, pandas, numpy, and matplotlib.

List your Conda Enviromnents (in R Markdown)