# On your device

Prior starting, make sure to have admin rights on your device. While this is not a must-have it will make your life way easier.

## A. Basics

#### 1. Install R

https://cran.r-project.org/bin/windows/base/

# 2. Install R Studio (R IDE)

https://www.rstudio.com/products/rstudio/download/

## 3. Data Manipulation

```
install.packages('tidyverse')
```

## 4. General ML package

```
install.packages('caret')
```

## 5. Others packages in support

## **B.** Neural Networks

#### 1. 64-bit OS

Sorry, this is a must have.

## 2. Install the latest release of Python

- https://www.python.org/ftp/python/3.6.5/python-3.6.5-amd64.exe (Windows)
- https://www.python.org/ftp/python/3.6.5/python-3.6.5-macosx10.9.pkg (Mac OS X 10.9 and later)

Do not forget to set the following environment variables on your device

- 1. PATH must point to the directory of python.exe (e.g. C:\User\FolderWhereYouInstalledPython)
- 2. PATH must point to the directory of python.exe (e.g. C:\User\FolderWhereYouInstalledPython\scripts)

And, in case you are working on a corporate device:

- set  $HTTP\_PROXY$  to http://YOUR\_ID:YOUR\_UNIDIR\_PWD@proxymil.internal.unicredit.eu: 3128/
- and  $HTTPS\_PROXY$  to https://YOUR\_ID:YOUR\_UNIDIR\_PWD@proxymil.internal.unicredit.eu: 3128/

## 3. Interface R - Python

```
install.packages('reticulate')
```

#### 4. Neural Nets

# C. Jupyter Notebooks

In case you want to run our amazing notebooks offline. (Requires Python installation)

#### 1. Configure stuffs

```
'digest'))

devtools::install_github('IRkernel/IRkernel')
IRkernel::installspec(user = FALSE)
```

Do not forget to set the following **environment variables** on your device

• PATH must point to the directory of R.exe (e.g. C:\Program Files\R\R-3.5.0\bin)

#### 2. Install visual Studio Build Tools

http://landinghub.visualstudio.com/visual-cpp-build-tools

## 3. From the CMD line (opened as administrator)

If you wish to use jupyter notebooks

```
pip install jupyter
```

If you prefer jupyterlab instead

```
pip install jupyterlab
```

Be sure to be in the right hard drive

C:

Start jupyter/jupyterlab (a browser window should magically pop up). From there, you can source the .ipynb in the folder where you have downloaded it

```
jupyter-notebook
jupyter-lab
```

To connection (once you are done), hit CTRL+C twice in the CMD line

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# D. Cloud

In case you do not manage to execute A. and B. you can run everything from https://rstudio.cloud