Instalar Keras en R

* Instalar ANACONDA

<https://repo.anaconda.com/archive/Anaconda3-2020.07-Windows-x86_64.exe>

1. Abrir anaconda
2. Levantar cmd.exe prompt
3. Instalar python 3.7 ( con la ultima version 3.8 no anda tensorflow )
4. desde la terminal :
5. conda install python=3.7 (esto demora mucho)

Chequear la versión que quedo instalada

python ( mirar la version y despues quit() … )

1. Despues instalar los paquetes tensorflow y keras asi:

pip install tensorflow==2.0.0

pip install keras==2.3.0

1. tipear en la terminal

where python.exe

(acordarse de donde esta, por ejemplo:)

"C:\\Users\\alfre\\anaconda3\\python.exe")

En mi pc C:\Users\Marcela\anaconda3\python.exe

* Instalar R 4.0

https://cran.r-project.org/bin/windows/base/R-4.0.2-win.exe

* Instalar RTools 4.0

https://cran.r-project.org/bin/windows/Rtools/rtools40-x86\_64.exe

* Instalar R-Studio

Dentro de RSTUDIO:

instalar reticulate ( interface entre R y python).

Ejecutar este comando con el directorio donde está python.exe

Sys.setenv(RETICULATE\_PYTHON= " C:\\Users\\Marcela\\anaconda3\\python.exe")

install.packages('reticulate')

library(reticulate)

Ejecutar esta linea:

reticulate::py\_config()

tendría que mostrar que usa python37 sino estamos en problemas

python: C:/Users/alfre/anaconda3/python.exe

libpython: C:/Users/alfre/anaconda3/python37.dll

pythonhome: C:/Users/alfre/anaconda3

version: 3.7.7 (default, May 6 2020, 11:45:54) [MSC v.1916 64 bit (AMD64)]

Architecture: 64bit

numpy: C:/Users/alfre/anaconda3/Lib/site-packages/numpy

numpy\_version: 1.17.0

tensorflow: C:\Users\alfre\ANACON~1\lib\site-packages\tensorflow\\_\_init\_\_.p

Después activar las librerias de python keras y tensorflow.

library(keras)

library(tensorflow)

Ejecutar

sessionInfo()

tendría que mostrar que está cargado el paquete tensorflow y keras.

R version 4.0.2 (2020-06-22)

Platform: x86\_64-w64-mingw32/x64 (64-bit)

Running under: Windows 10 x64 (build 19041)

Matrix products: default

locale:

[1] LC\_COLLATE=Spanish\_Latin America.1252 LC\_CTYPE=Spanish\_Latin America.1252 LC\_MONETARY=Spanish\_Latin America.1252

[4] LC\_NUMERIC=C LC\_TIME=Spanish\_Latin America.1252

attached base packages:

[1] stats graphics grDevices utils datasets methods base

other attached packages:

[1] tensorflow\_2.2.0 keras\_2.3.0.0 fpp\_0.5 tseries\_0.10-47 lmtest\_0.9-38 zoo\_1.8-8 expsmooth\_2.3

[8] fma\_2.4 forecast\_8.13 openxlsx\_4.1.5

loaded via a namespace (and not attached):

[1] reticulate\_1.16 tinytex\_0.25 tidyselect\_1.1.0 xfun\_0.17 purrr\_0.3.4 urca\_1.3-0

[7] lattice\_0.20-41 colorspace\_1.4-1 vctrs\_0.3.4 generics\_0.0.2 base64enc\_0.1-3 rlang\_0.4.7

[13] pillar\_1.4.6 glue\_1.4.2 rappdirs\_0.3.1 TTR\_0.24.2 lifecycle\_0.2.0 quantmod\_0.4.17

[19] timeDate\_3043.102 munsell\_0.5.0 gtable\_0.3.0 zip\_2.1.1 tfruns\_1.4 parallel\_4.0.2

[25] curl\_4.3 xts\_0.12.1 Rcpp\_1.0.5 scales\_1.1.1 jsonlite\_1.7.1 fracdiff\_1.5-1

[31] ggplot2\_3.3.2 stringi\_1.5.3 dplyr\_1.0.2 grid\_4.0.2 quadprog\_1.5-8 tools\_4.0.2

[37] magrittr\_1.5 tibble\_3.0.3 whisker\_0.4 crayon\_1.3.4 pkgconfig\_2.0.3 zeallot\_0.1.0

[43] ellipsis\_0.3.1 Matrix\_1.2-18 rstudioapi\_0.11 R6\_2.4.1 nnet\_7.3-14 nlme\_3.1-148

[49] compiler\_4.0.2

Si se ven ...

Después hay que probar el programa que vimos el otro día del ajuste de la red neuronal.

Listo!!