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Getting Started with R Homework

* What is an IDE?

An IDE is integrated development environment. IDE’s allow you write, edit code, and debug code.

* Why use Anaconda?

Anaconda is used because with most of the scientific math and stat packages like (numpy, matplotlib, scipy, pandas). It also comes with software like Jupyter notebooks, vs code, and spyder.

* Can we use R from within jupyter notebook?

You can use R within jupyter notebooks.

* What is R?

R is used for statistical computing. R is used as an environment to do linear and nonlinear modelling, time-series analysis, classification, clustering, and graphing.

* Who uses are R?

R is mostly used in financial services, pharmaceutical companies, and academia.

* How is R different from python?

R is more centered on statistical analysis uses while python is more general-purpose language. Python can be used to manipulate large amounts of data, and handle data science/machine learning applications.

* What is R Studio?

R studio is basically and upgraded R. Rstudio has an IDE format that allows you to edit code and store packages. Rstudio also has better graphics than R.

* What is a script?

A script is a text document with code or instructions that are run by programs so it can be run properly.

* What is a notebook?

An R notebook uses r markdown similar to a jupyter notebook except when you run it it runs all the code blocks at once. You also can export your rmarkdown it into a pdf or word document.

* What is the difference between R Notebook - R Markdown - Jupyter Notebook?

R notebook and R markdown are essentially the same thing. The difference is that R markdown runs the whole notebook while R notebook just runs select code blocks. Jupyter Notebook you can use different languages inside the notebook. Also just like r notebook it runs code one block at a time.

* Post a picture/screencap of the R studio screen and explain the different parts like the console

Graphical user interface, text

Description automatically generated

On my Rstudio I have the rscript where you type out the commands. On the right I have the console/terminal where you get the output from the rscript commands. Then on the bottom you have a file tab, a Plots tab to view graphs, a package tab to view all downloaded packages, a help tab, and a viewer tab.