## Python vs. R

With Lavanya Vijayan



## Resources

Here you can find all of the websites and resources mentioned in the course, along with some extras.

#### **Websites**

### https://www.python.org/

Contains official documentation for Python, directions on how to install and set up Python on your computer, the documentation for the abundance of functions and tools that Python provides, and ways to get involved with the Python community

#### https://jupyter.org/

Contains information about Jupyter, a popular environment for running Python in, and how to install it

### https://www.r-project.org/

Contains official documentation for R, directions on how to download R, and manuals that help you navigate R's tools

#### https://www.rstudio.com/

Contains information about RStudio, a popular environment for running R in, and how to install it

## https://pandas.pydata.org/docs/

Contains documentation for Python's pandas library and all the tools it provides

## https://dplyr.tidyverse.org/

Contains documentation and examples of usage for R's dplyr package, which provides tools for data manipulation

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#### https://tidyr.tidyverse.org/

Contains documentation and examples of usage for R's tidyr package, which provides tools for data cleaning and organization

#### https://matplotlib.org/

Contains documentation and tutorials for Python's matplotlib library, which provides tools for data visualization

## https://seaborn.pydata.org/

Contains documentation and tutorials for Python's seaborn library, which is built on top of matplotlib and provides further tools for data visualization

# https://www.rdocumentation.org/packages/stats/versions/3.6.2/topics/t.test

Contains documentation and an example use case for R's t.test function, which helps you carry out t-tests on samples of data

### http://www.rdocumentation.org/

An additional source of documentation for the numerous functions available in R, with a search bar that facilitates look-up

#### https://scikit-learn.org/stable/modules/generated/sklearn.naive\_bayes.MultinomialNB

Contains documentation for Multinomial Naive Bayes Classifier, a type of machine learning model supported by Python's sckit-learn library

#### https://scikit-learn.org/stable/

Contains documentation, user guide, and examples, and tutorials for Python's scikit-learn library, which supports various types of machine learning models

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## https://scikit-learn.org/stable/modules/clustering

Contains information about the tools Python's scikit-learn library provides for clustering, which is one of the applications of unsupervised learning

#### https://cran.r-project.org/web/packages/Imtest/Imtest.pdf

Contains documentation and examples for R's Imtest package, which provides a rich set of tools that help you perform linear regression on data

#### **Books**

**Python Data Science Handbook** by Jake VanderPlas

https://jakevdp.github.io/PythonDataScienceHandbook/

A handbook that helps you navigate the syntax for using tools from the major Python libraries for data science

**R for Data Science** by Hadley Wickham and Garrett Grolemund https://r4ds.had.co.nz/

A book that addresses different aspects of using the major R packages for data science and helps you hone your skills around handling data in R

#### **Additional Courses**

**Python Quick Start** by Lavanya Vijayan and Madecraft <a href="https://www.linkedin.com/learning/python-quick-start">https://www.linkedin.com/learning/python-quick-start</a>

A course that walks you through the set-up of Python and Jupyter and introduces you to the fundamentals of programming, with concepts and hands-on exercises