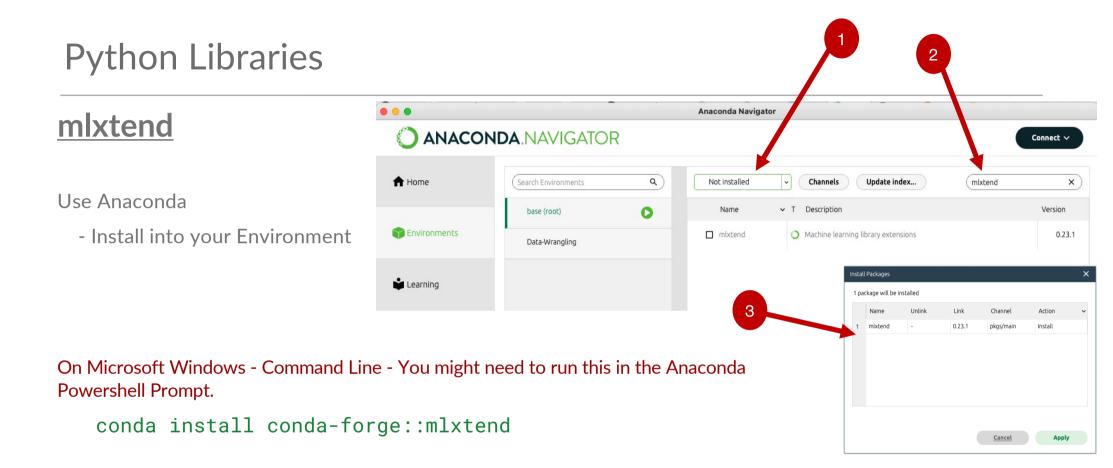
TU 257 - Fundamentals of Data Science

Data Analytics

Lab 9 – Association Rules Analysis Market Basket Analysis

Brendan Tierney



Documentation

See previous examples on how to install a library using both approaches

Agenda

• Exercise 1 – Demo Notebook 1

• Exercise 2 – Demo Notebook 2

Assignment





Exercise 1 – Demo Notebook 1

Exercise 1 – Demo Notebook 1

- Part 1 Examples/Demo Notebook 1
 - Download the Demo Notebook 1
 - Download the Dataset needed for Demo Notebook 1
 - Run all cells
 - Examine the output generated
 - Follow what is happening from cell-to-cell
 - · Add extra annotations/descriptions based on your understanding
 - Enrich the descriptions to make them more meaningful for you

Exercise 1 – Demo Notebook 2

Exercise 2 – Demo Notebook 2

- Part 1 Examples/Demo Notebook 2
 - Download the Demo Notebook 2
 - Download the Dataset needed for Demo Notebook 2
 - Run all cells
 - · Examine the output generated
 - Annotate the Notebook with explanations of what is happening in each Cell
 - Add the annotations as Markdown Cells
 - Explore increasing/decreasing text size using # symbol
 - make sure there is a space between # and the start of the text
 - Add annotations/descriptions that make sense to you
 - Test that will make sense to you when you look in a few days, weeks, and months time

Exercise 2 – Demo Notebook 2

- See Questions at the end of the Notebook
- Can you add additional code (taking a copy of the code earlier in the notebook)
 - Modify it slightly
 - Examine the results produced
- Compare the results with those found earlier in the Notebook
 - From other Countries

Assignment B

- Assignment Time again!
 - It's available on BrighSpace.
- If you have spare time during our class time, and after you have finished the lab exercises
 - Have a look at the assignment
 - · Do you have any ideas of what datasets, etc you could use
 - Research some example
 - Have a think about what you could achieve
- There are lots of Repositories (websites) for Data Sets. Here's a link to one I have
 - https://oralytics.com/2019/04/18/data-sets-for-analytics/
 - This might be useful for finding datasets for you to use.

Assignment

- Start working/thinking about it early
- Try different datasets and examples you have found
- What can you do to showcase your work and understanding of the topics
- What can you add to the data analysis

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Any Questions?

What Now/Next?

Complete all Lab Exercises before Next Week