Recap
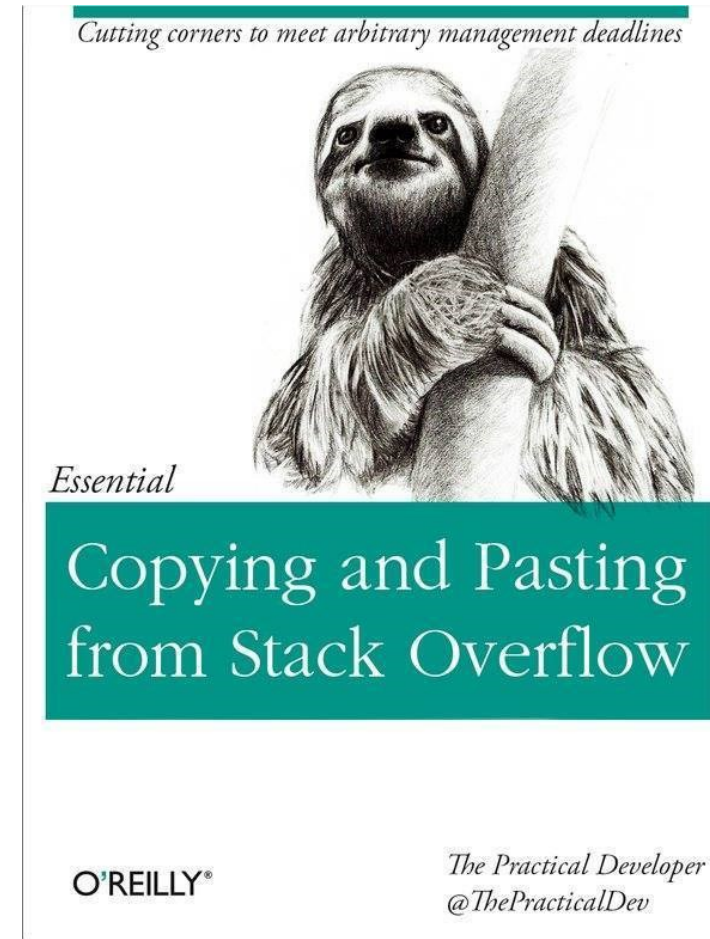
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Motivation

▶ As data scientists, we know that computers are great at aiding in repetitive tasks

> ▶ We have a vast range of tools available at our fingertips that enable us to be more productive and solve more complex problems when working on any computer-related problem
>
> ▶ Yet many of us utilize only a tiny fraction of those tools; In this mini-course, I will try my best to help you become familiar with what kind of tools may be useful in your research

Cutting corners to meet arbitrary management deadlines

Essential

Copying and Pasting from Stack Overflow

O'REILLY®

The Practical Developer
@ThePracticalDev

https://www.goodreads.com/book/show/29437996-copying-and-pasting-from-stack-overflow

Basics

- https://learnxinyminutes.com/docs/python/
- https://gto76.github.io/python-cheatsheet/
- https://github.com/juliangaal/python-cheat-sheet/tree/master/NumPy
- https://scipy-lectures.org/

Lectures

- Course website: https://phonchi.github.io/nsysu-math524/materials and Lab
- For the programming patterns: Reference book: *Practical Statistics for Data Scientists 50+ Essential Concepts Using R and Python*
  - Authors: Peter Bruce, Andrew Bruce and Peter Gedeck
  - https://github.com/gedeck/practical-statistics-for-data-scientists

- https://github.com/jakevdp/PythonDataScienceHandbook/tree/v2/notebooks_v2
- https://dafriedman97.github.io/mlbook/content/introduction.html

- Pandas and matplotlib
  - https://pandas.pydata.org/Pandas_Cheat_Sheet.pdf
  - https://matplotlib.org/cheatsheets/
- Statsmodel and Sklearn
  - https://scikit-learn.org/stable/supervised_learning.html#supervised-learning
  - https://scikit-learn.org/stable/model_selection.html
  - https://scikit-learn.org/stable/visualizations.html
  - https://scikit-learn.org/stable/modules/preprocessing.html
  - https://www.statsmodels.org/stable/regression.html
  - https://www.statsmodels.org/stable/generated/statsmodels.regression.linear_model.OLSResults.html
  - https://www.statsmodels.org/stable/generated/statsmodels.stats.outliers_influence.OLSInfluence.html
  - http://rasbt.github.io/mlxtend/

Search tips

- https://www.google.com/advanced_search
  - https://www.google.com/search?q=resume+site:cs.cmu.edu+filetype:pdf
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