

Python for AI and Machine Learning

Lecture 01



About Me

- Marilson Campos
 - Principal Data Architect with 15+ years of experience.
 - Background in Machine Learning and Search engines
 - Designing ML & Big Data systems since 2007
- Some relevant presentations
 - Hadoop Summit 2013
 - Apache Impala User Group - 2015
 - Strata 2016 – Use case @ Cloudera Booth
 - Impala spotlight – Cloudera 2016

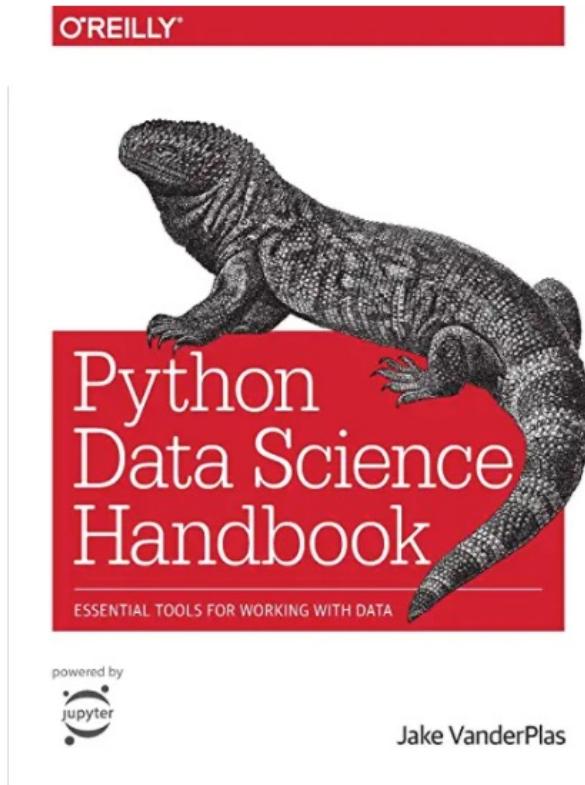
About the class

What we will cover

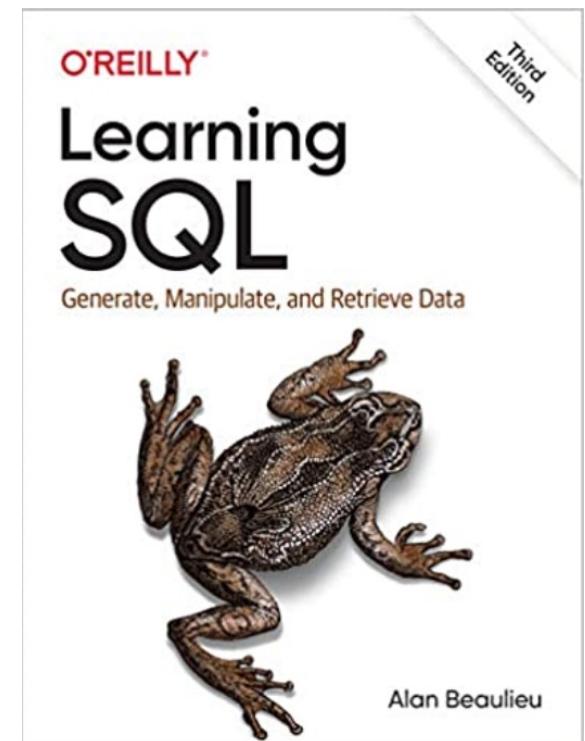
- Python language
- Using Notebooks
- Numpy
- SQL / Pandas
- Matplotlib
- Data pipeline design
- Some Unix commands commonly used

Recommended Books

Python Data Science



SQL



About the class

At the end of this class, I expect you to...

- Create python programs and how to optimize performance of programs.
- Create and use python notebooks.
- Use pandas to load data, do math using Numpy and plot graphics in matplotlib.
- Continue to learn using other sources.

About the class

Class Material vs The Test

- We are covering some non-trivial concepts.
 - If you miss few advanced details, don't worry too much.
Important: If you are lost, please stop me! And ask for clarification.
 - I want to make the class as interactive as possible.
- Problems in the labs are a lot harder than the ones in the test.
 - This is by design, so advanced students can also benefit from the class.
- To succeed in this class you have to spend time writing code.

Installing Python & PyCharm

Goto:

Pycharm Edu edition

<https://www.jetbrains.com/pycharm-edu/>

Anaconda Navigator

<https://docs.anaconda.com/anaconda/install/>