DSC NSEC

04

Chapter

SETTING UP YOUR PYTHON ENVIRONMENT FOR ML

UNIT TWO

SEP 15, 2019

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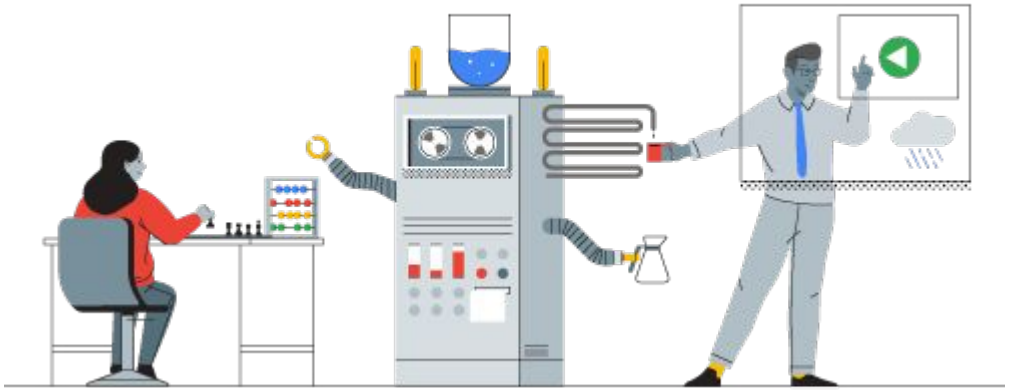
Intro to ML with DSC NSEC

About Me

- Deep Learning for Computer Vision
- Chair, IEEE EDS Student Branch Chapter, NSEC
- Winner of few competitions.
- Human <3

Chapter 4: Setting up your Python environment for ML.



- 1.1 Introduction
- 1.2 Wrangling the Anaconda
- 1.3 Tools at Disposal
- 1.4 How to avoid headache?
- 1.5 Conda and Concepts

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Disclaimers

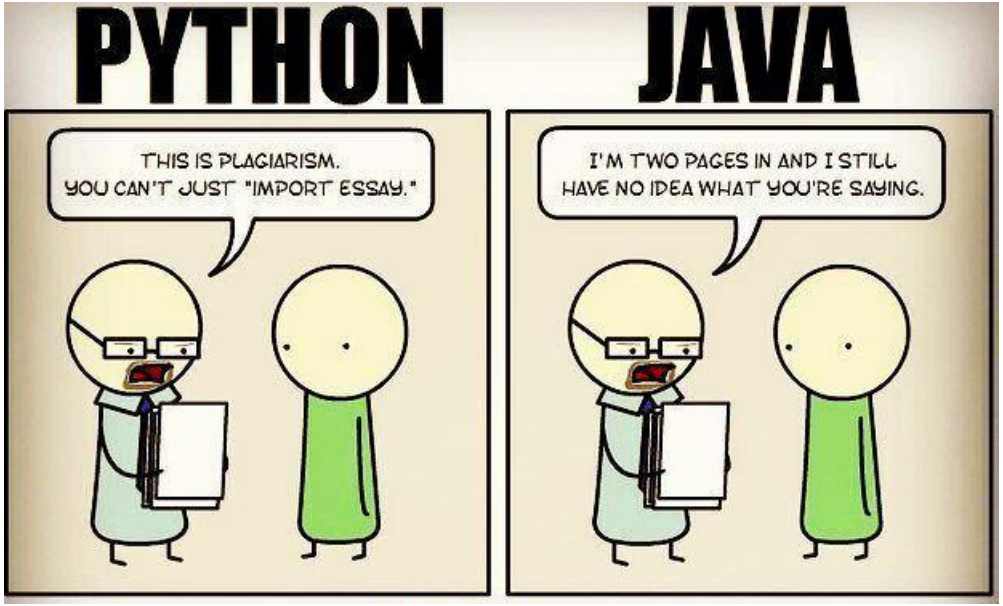
- Tools that I use.
- Practices that I follow.
- There is no right and wrong. It’s your choice.
- It will certainly help in your ML journey.

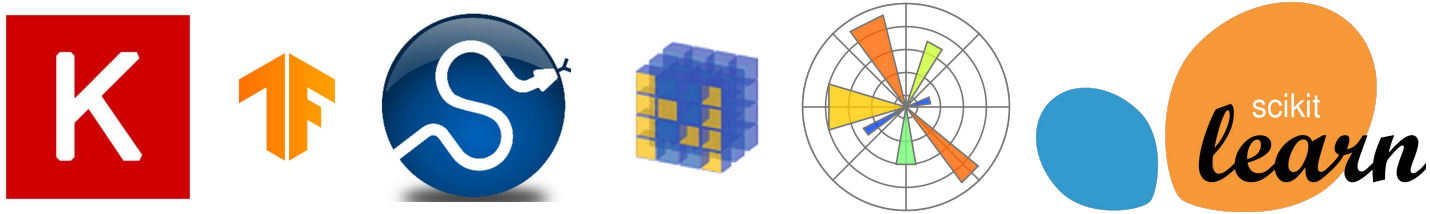
Some Why?

- Why Python for ML?
- Why it’s easy to screw up everything?
- Why even bother about managing stuffs?

Why Python for ML?

- Simplicity
- Platform Independent
- Community and Support





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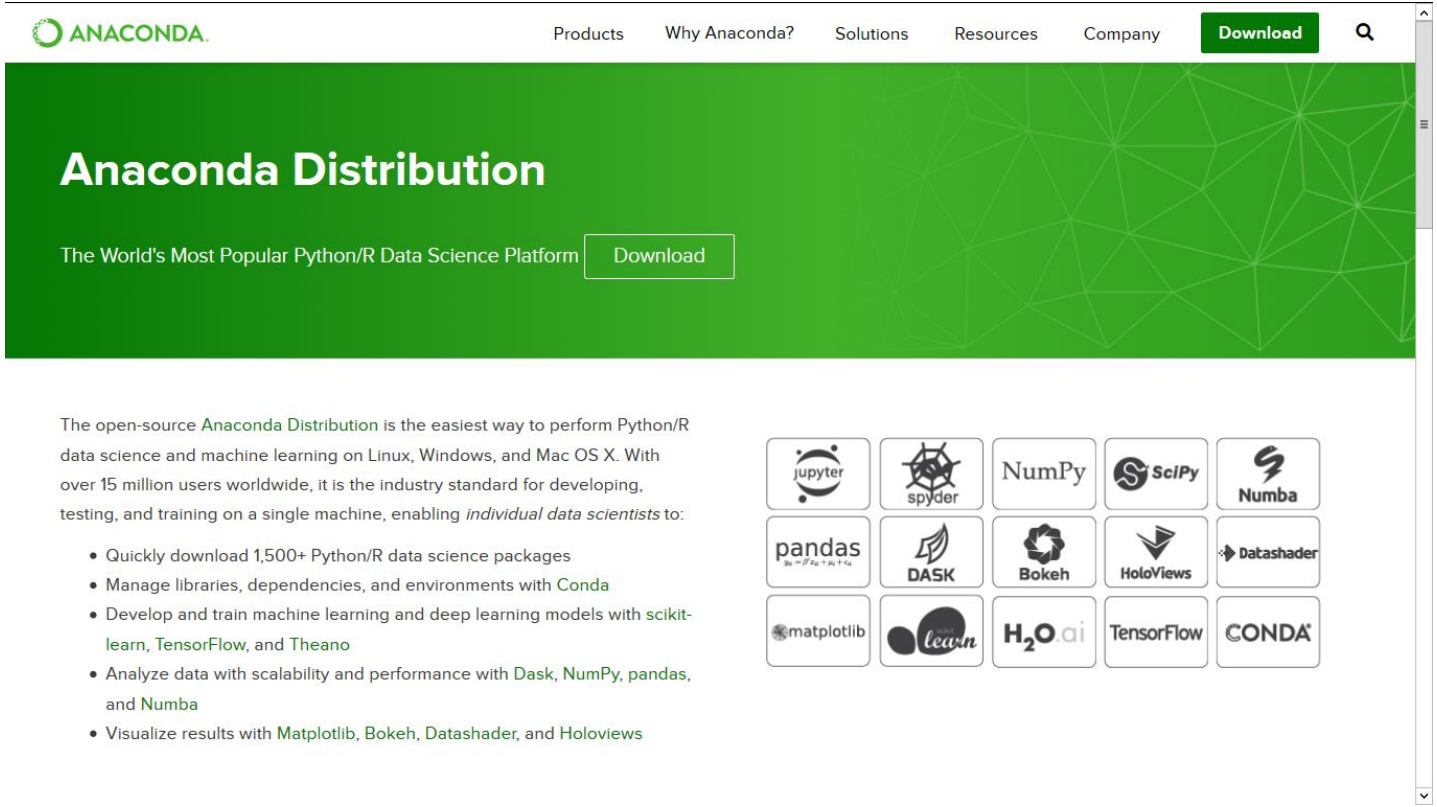
Python Package Manager

- PyPI - Python Package Index
- Anaconda by Continuum Analytics

pypi

ANACONDA®

Continuum Analytics Anaconda



Continuum Analytics Anaconda

Install:

https://www.anaconda.com/distribution/

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Tools At Disposal

- Old school Python IDLE
- Jupyter Notebook
- IPython
- Anaconda Navigator

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Python Environment Manager

- Virtualenv
- Pyenv
- Conda env

WebDev

- Django
- Flask
- SQLAlchemy
- Jinja2
- Requests

DataScience

- TensorFlow
- Keras
- Pandas
- Matplotlib
- Numpy

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Conda Concepts

- Conda Package
- Conda Environment
- Conda Channels

Conda Commands

- Conda Search
- Conda Update
- Conda Install
- Conda List
- Conda Create

Thank You

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Connect: Linkedin

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