# TUTORSHIP CLASS # 1

Anna Badalyan, Mojtaba Amini

# FUNDAMENTALS OF INFORMATION SYSTEMS

- Slides for Algorithms, download notebook for python before labs to practice

- DataCamp, Hacker rank, Kaggle … ( use for more practice )

- Try to pass with Midterms, ( its easier ☺ )

- It depends on your experience in python, we can also consider a session for practice together

# PROGRAMMING

Nice things to cover:

- Command line interface

- Learn the basics

- Do a project

- Do the same also for R programming

**Most Important thing about learning programming is Practice!**
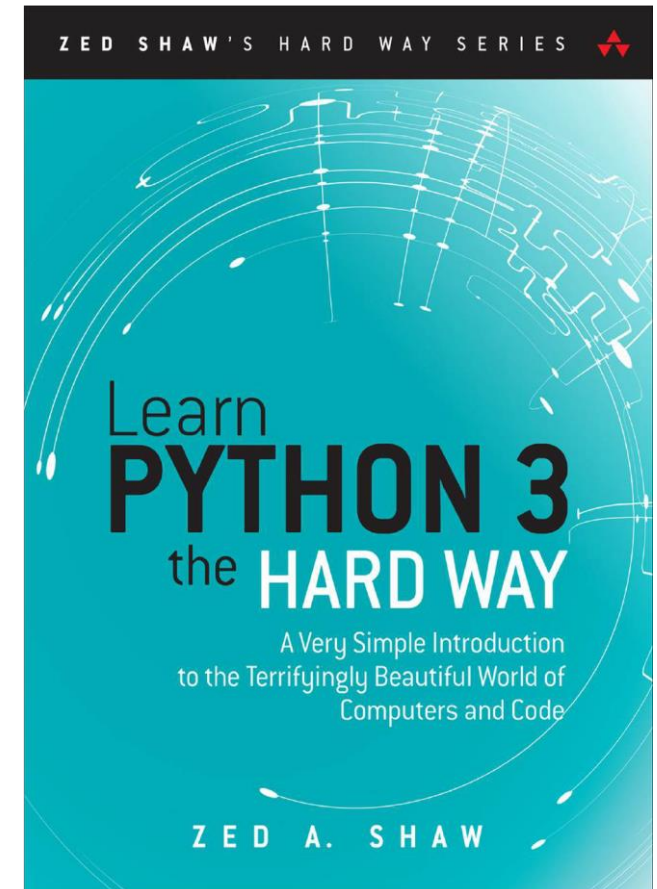
Exploratory Data Analysis with R

Roger D. Peng

R Programming for Data Science

Roger D. Peng

ZED SHAW'S HARD WAY SERIES

Learn **PYTHON 3** the **HARD WAY**

A Very Simple Introduction to the Terrifyingly Beautiful World of Computers and Code

ZED A. SHAW

# ALGORITHMS

- It has python implementation for all data structures and algorithms

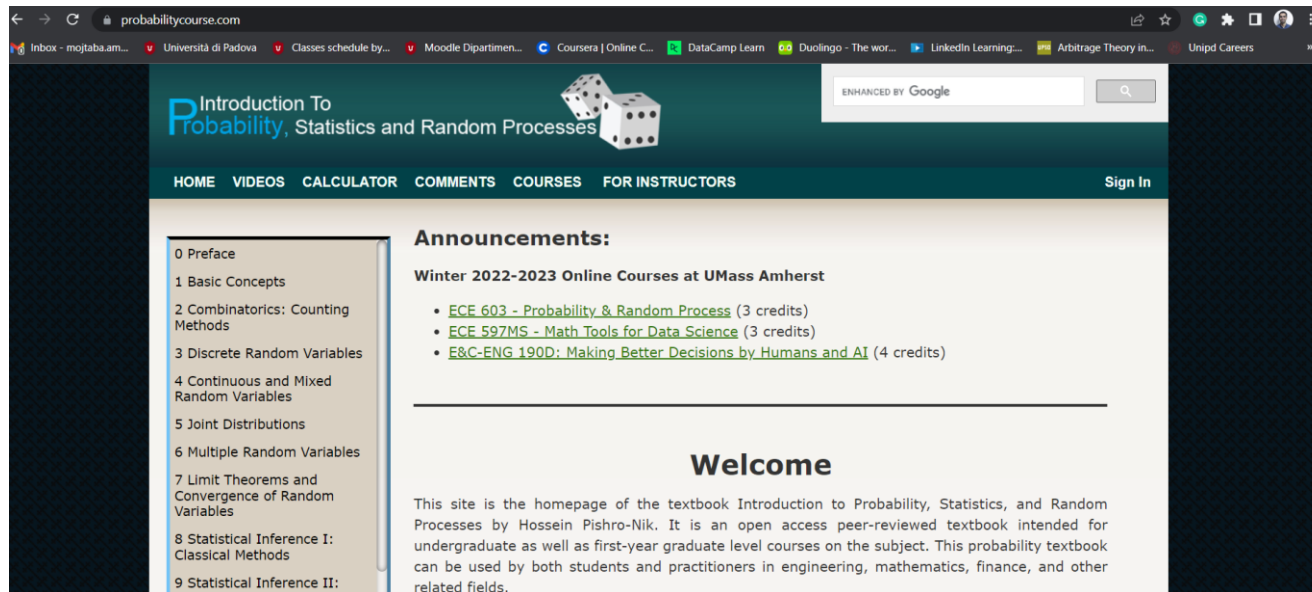- When you implement the concepts, it's easier to understand them
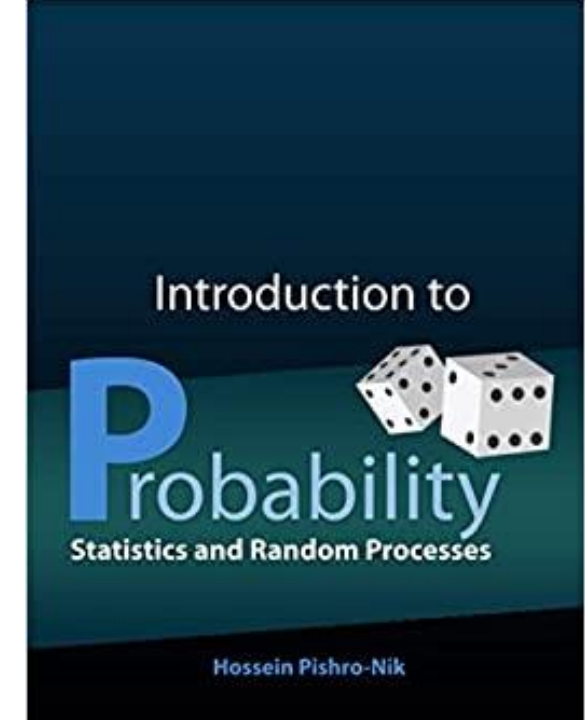
## Data Structures & Algorithms

## in Python

MICHAEL T. GOODRICH ● ROBERTO TAMASSIA ● MICHAEL H. GOLDWASSER

# STOCHASTIC METHODS



- take a look at the previous year exams, they aren't vert difficult

- read reference books for better understanding

- we will solve the old exams

# MACHINE LEARNING

Andrew Ng, Stanford notes 2022

http://cs229.stanford.edu/lectures-spring2022/main_notes.pdf

- if you agree, we can solve some exercises in addition to Prof from other resources ( Mentioned course )

# LABTA ACCOUNT

https://www.studenti.math.unipd.it/aule/

# LABTA ACCOUNT: SSH CONNECTION

ssh username@labta.math.unipd.it

```
PS C:\Users\Anna> ssh abadalya@labta.math.unipd.it
abadalya@labta.math.unipd.it's password:
```

# OTHER TOPICS

About Which one do need to know more!

- Libraries ( which one is open at weekend, how to take book, laptops, using printers, which has group work space…. )

- Internship

- Thesis

- Studying abroad opportunity

# IF YOU HAVE ANY QUESTION OR SUGGESTIONS, ASK US

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