Python for Data Analysis
Data Analysis Examples (Week 11)

Atefeh Khazaei

atefeh.khazaei@port.ac.uk

What we will learn this week?

❑ Review what we learned in previous weeks

❑ Data analysis example

   ❑ Well known dataset from a Kaggle competition

      ❑ Titanic dataset

Next Teaching Block (TB#2)

❑ Different Modeling Algorithms in Python

    ❑ KNN

    ❑ Decision Tree

    ❑ Random Forest

    ❑ Linear Regression

❑ Clustering in Python

❑ Model Evaluation in Python

❑ R Language for Data Analysis

References & More Resources

Data Wrangling with Pandas, NumPy, and IPython

Python for Data Analysis

O'REILLY®   Wes McKinney

❑ References:

   ❑ McKinney, Wes. *Python for data analysis: Data wrangling with Pandas, NumPy, and IPython.*

       O'Reilly Media, Inc., 2012.

❑ More Resources:
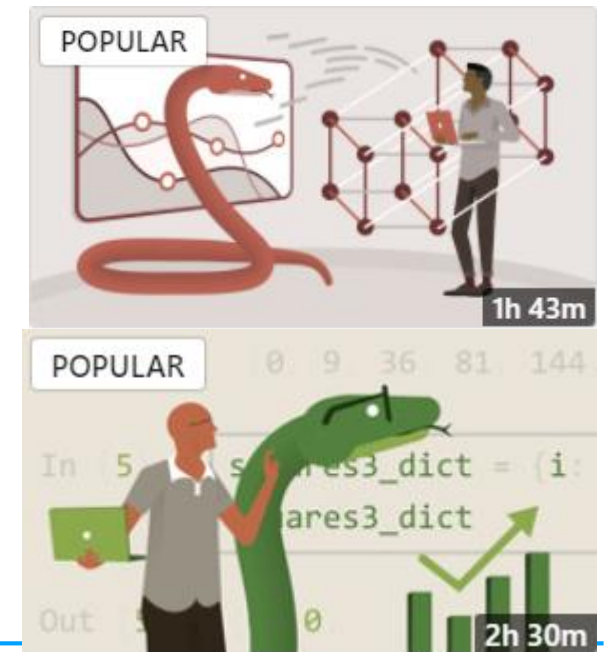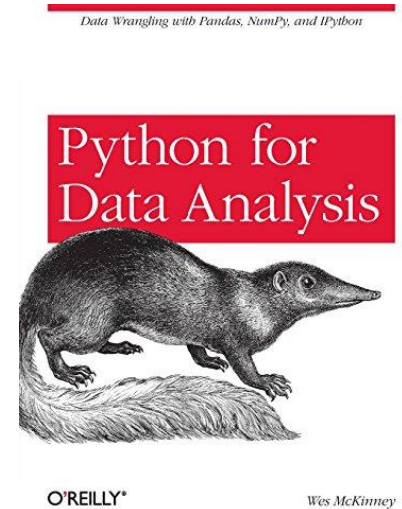
   ❑ Machine Learning with Python: Foundations:

https://www.linkedin.com/learning/machine-learning-with-python-foundations

   ❑ Python Data Analysis on Linkedin Learning:

https://www.linkedin.com/learning/python-data-analysis-2

      ❑ To use Linkedin Learning, you can log in with your university account:

         https://myport.port.ac.uk/study-skills/linkedin-learning

Practical Session

❑ Please download Week11_CaseStudy_Titanic.ipynb file, and run it to learn new points.

❑ Please read the practical sheet (Week10_Practicals.pdf) and continue last week's exercise.