



Data Science Laboratory

Introduction to the course

Course content

- Data science algorithms and techniques
 - Data preparation
 - Association rule extraction, clustering
 - Classification, regression
 - + labs
- Python programming
 - Basic language constructs
 - Multidimensional arrays
 - SciKit learn, Pandas
 - + labs
- Company case studies

➤ Course books

- Tan, Steinbach, Karpathe, Kumar, *Introduction to data mining*, 2nd edition, Pearson, 2019
- Han, Kamber, Pei *Data mining: concepts and techniques*, 3rd edition, Morgan Kaufmann, 2011
- Kent D. Lee , *Python Programming Fundamentals*, Springer, 2015
- Jake VanderPlas, *Python Data Science Handbook: Essential Tools for Working with Data*, O'Reilly, 2016