LABORATORY OF DATA SCIENCE

Anna Monreale

Computer Science Department, University of Pisa

Data Science & Business Informatics Degree

Room, timetable, teachers

- Room and Timetable
  - Tuesday, room Room M, 11-13
  - Thursday , room Room M, 11-13

- Teacher

  - **Anna Monreale**
    - Computer Science Department, Room 374/DO
    - Email: anna.monreale@unipi.it
    - Office hours: Monday 09:00-11:00

  - **Roberto Pellungrini**
    - Computer Science Department, Room 384/DO
    - Email: roberto.pellungrini@di.unipi.it
    - Office hours: Wednesday 14:00-16:00

Lab of Data Science

Context

- The DS Lab
  - is at the 1st semester, 2 year
  - is compulsory for Business Informatics
  - is a lab course of topics presented at:
    - 667AA: Programming for data science
    - 600AA: Decision Support Databases
    - 420AA: Data Mining I & II
  - requires knowledge of
    - computer programming
    - datawarehousing
    - data mining

Module objectives

- The DS lab presents technologies and systems for accessing heterogeneous data sources, building and populating datawarehouses, querying data cubes, extracting knowledge by data mining

- The accent is on problem solving and on the technology in support of the process. *Theory is assumed from previous courses.*

- Contents of the DS lab will demonstrate useful for the thesis or in industrial projects you will do in BI.

Teaching materials

- Web page
  - http://didawiki.di.unipi.it/doku.php/mds/lbi/
  - news and links
  - slides & video-records of lessons
  - textbook chapters
- Software installed on PCs or can be downloaded
  - Anaconda 3 for programming
  - SQL Server 2019 for data warehousing
    - only client & dev tools needed
    - optional, server downloadable with MSDN-AA licence

Exam

- Written part
  - Two mid-term exams ("compitini")
    - Lab tests
  - or normal exam
    - Lab test

- Oral part
  - discussion of written part plus open questions
  - optional oral session after second mid-term

Lab of Data Science

Accounts & Mailing list

- Send as soon as possible a mail to anna.monreale@unipi.it with the following data:
  - subject: "LDS"
  - text:
    - name
    - surname
    - student-id

- You will get:
  - an account on a database server of the course
  - included a mailing list of urgent news