Data Mining

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Computer Science Department, University of Pisa
Data Mining

Data Mining (12 CFU) – Code: 420AA

• DM I: Foundations of Data Mining (first semester)
• DM II: Advanced topics on Data Mining and case studies (Second semester)
• For students in Data Science & Business Informatics

Data Mining (9 CFU) Code: 309AA

• For students in Computer Science
Data Mining (first semester)

• **Instructors**
  • Dino Pedreschi, pedre@di.unipi.it
  • Anna Monreale, anna.monreale@unipi.it

• **Teaching assistant**
  • Riccardo Guidotti, guidotti@di.unipi.it

• **Classes**
  • Monday 14:00 - 16:00 Room C1
  • Wednesday 14:00 - 16:00 Room C1
  • Friday 11:00 - 13:00 Room A1

• **NO Class for Students from Data Science & Business Informatics after mid of November**

• **After mid of November classes are dedicated to Computer Science Master Degree**
Data Mining

• Web Page

• Learning Material


• Slides of the classes

• Data mining software
  • KNIME: The Konstanz Information Miner. Download page
  • Scikit-learn: python library with tools for data mining and data analysis
Exam

- A **written exam**, with exercises and questions about methods and algorithms presented during the classes.
  - It can be substitute with the first and second mid-term tests (November and December)

- A **project**, consisting in exercises that require the use of data mining tools for analysis of data. Exercises include: data understanding, market basket analysis, clustering analysis and classification.
  - The project has to be performed by max 3 people.

- An **oral exam** that includes: (1) discussing the project report with a group presentation; (2) discussing topics presented during the classes, including the theory of the parts already covered by the written exam.

- **Oral exam is not mandatory if your written exam is passed by the mid-tests**
Mailing list

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

• You will be included in a mailing list of urgent news