

DATA ANALYTICS FOR DIGITAL HEALTH

Course Overview

Francesca Naretto, Riccardo Guidotti
Computer Science Department
a.y. 2026 - 2027

Information

- **Instructors**

- **Riccardo Guidotti**

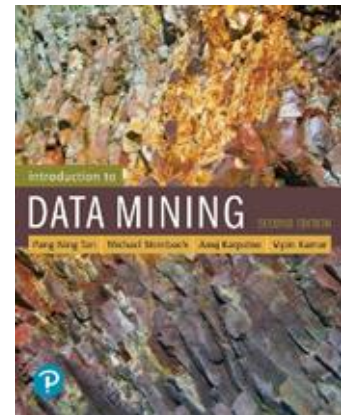
- Computer Science Department, Room 363
 - Email: riccardo.guidotti@unipi.it
 - Office hours: Online using Teams or in my Office (**Appointment by email**).

- **Francesca Naretto**

- Computer Science Department, Room 328
 - Email: francesca.naretto@unipi.it
 - Office hours: **Mon 11:00-13:00** - Online using Teams or in my Office (**Appointment by email**).

Data Mining

- **Web Page**
 - <http://didawiki.cli.di.unipi.it/doku.php/digitalhealth/0001a>
- **Learning Material:**
 - **Textbook:** Pang-Ning Tan, Michael Steinbach, Vipin Kumar
Introduction to DATA MINING Addison Wesley, 2018
- **Slides of the lectures, Python Notebooks**
- **Data mining software**
 - **Scikit-learn:** python library with tools for data mining and data analysis



For the exam, we are expected to study on the textbooks and not only on the slides.

Exam

Option I – Project + oral exam

- Only for students attending the course
- Group project in Python, teams of 2–3 students
- Intermediate checkpoints with short presentations of work in progress (mandatory)
- Final project deadline: January 6th, 2027
- Final grade:
 - Project: 70%
 - Oral exam: 30% (practical and theoretical questions on all the topics of the course)

Exam

Who can do the project?

All the ***attending students!***

Attending students = attending ***at least 65% of the course*** (at least 46 hours of lessons).

Students below this threshold will follow the written exam path.

Fill:

https://docs.google.com/forms/d/e/1FAIpQLSeASo3Qfp3ZEmjfTGPTkAY8y8qVP_G8_RqM4pHoA75F4QPMPg/viewform?usp=dialog

ASAP with your info if you want to do the project.

Fill the group ID only if you already know your partner/s for the project.

Exam

Option 2 – Written + oral exam

For students who:

- do not follow the project-based activities, or
- do not submit the project by the deadline
- Final grade:
 - Written exam: 70%
 - Oral exam: 30%
- The written and oral exams cover the full course programme, including both theoretical and practical aspects.

Questions?