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Grade : Written test (10 Points)
+ Participation (5 Points) +
Practical test (5 Points)



Number of hours : 21 h

- Machine learning
-Databases,Datawarehouse
-Analysis, Probability,statistics

fourth-year
software engineering (4th year)

-Students to understand the key concepts of data mining.
- They learn how to prepare and explore data for effective use.
-The practical sessions will allow students to apply
data mining techniques to real-world problems in various
domains such as healthcare, finance, marketing, and others..

Evaluation

Prerequisites

Target audience

General objectives

Chapter 1 : Data Collection and Exploration
(7.5h)

TP on: Data Mining

Chapter 3 : Model Building and Deployment
(7.5h)

Chapter 2 : Data Preprocessing
(6h)

TP1 - Session 1 (3 h) :Introduction to Python

TP1 - Session 2 (1.5 h) : Python Libraries

TP2 - Session 1 (3 h) : Data Collection

students will be able to collect real-world datasets from different
sources and perform exploratory data analysis (EDA)
using appropriate tools.

TP3- Session 2 (3 h) :Data Transformation

students will be able to clean and preprocess raw datasets in preparation for modeling.
Such as handling missing values, encoding categorical variables, normalization,
feature selection, and data transformation to improve data quality and model performance.

TP3 - Session 1 (3 h) : Data Cleaning

TP4 - Session 1 (3 h) : Model Building

TP4 - Session 2 (1.5 h) : Model Evaluation

TP5 - Session 1 (3 h) : Model Deployment

Make students able to Implement and evaluate different
data mining models .They will be able to interpret results,
and deploy the selected model to solve a real-world problem.

