

## Decision Support Systems based on ensemble learning methods

Orientador: Nuno Pombo (ngpombo@di.ubi.pt)

### Objetivos

In general, an ensemble of different base classifiers is more accurate than a single base classifier. Since the accuracy of the decision support system relies in the performance of its classification model, then is timely and promising to benchmark how ensemble multiple classifiers may increase the reliability of the decision-making.

### Tarefas a Realizar e Cronologia

T1 Introduction to ensemble models (2 weeks);

T2 Review the state of the art (8 weeks);

T3 Design and development (12 weeks)

T4 Testing and evaluation (8 weeks)

T5 Write the report (12 weeks)

	Feb	Mar	Apr	May	Jun
T1	X				
T2	X	X			
T3		X	X	X	
T4				X	X
T5			X	X	X

## **Requisitos Técnicos / Académicos**

Hard skills: Proficient in Programming, Statistics, and Machine Learning

Soft skills: Enthusiastic, Competitive, Dedicated, Perseverant, Creative, Logical and Critical thinking, Desire to learn.

## **Resultados Esperados**

- Source code and documentation of all code development;
- Journal or conference paper describing the process (tentative)
- Project report.

## **Referências Bibliográficas**