

# M05 - Mini project

## Human Activity Recognition from Continuous Ambient Sensor Data

Steve Devènes, Amara Spano

Unidistance

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# Outline

# Working hypothesis

It possible to perform human activity recognition from continuous ambient sensor data

# Data

Data is available online on the UC Irvine machine learning repository.

There are two evaluation protocols:



To change the evaluation protocols

# Workflow

For different experiments:

1. Load the training data
2. Create and train the model
3. Load the test data
4. Make prediction on test data
5. Print the confusion matrix for the model evaluation

The experiments run sequentially.

# Version control

On github at [https://github.com/sdevenes/M05\\_MiniProject](https://github.com/sdevenes/M05_MiniProject)  
The work is organized using github issues to create and assign tasks.

The general approach:

- ▶ Create 1 branch per feature named *feature/feature\_name*
- ▶ When the feature is complete, do a pull request with the other as a reviewer

# Documentation

Each function is commented with a docstring.  
We plan to use the documentation generator Sphinx.