M05 - Mini project

Human Activity Recognition from Continuous Ambient Sensor
Data

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September 21, 2020

Outline

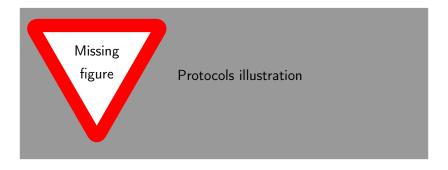
Working hypothesis

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 protocoles

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 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.