

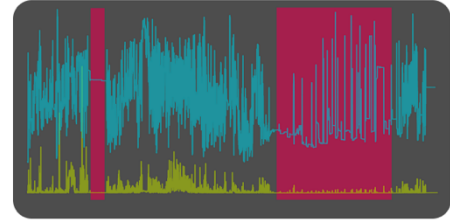
Data & Web Mining Lab Project

Claudio Lucchese claudio.lucchese@unive.it

Lab Project

Child Mind Institute — Problematic Internet Use

Relating Physical Activity to Problematic Internet Use



- **Prediction Task:**

<https://www.kaggle.com/competitions/child-mind-institute-problematic-internet-use/>

- **To be delivered:**

- One or more notebooks (and possibly other python files) and a 5-page pdf report discussing your critical choices. No more than 5 pages! The pdf report can be the export of a notebook.
- Project is discussed at the oral exam
- Deadline: No deadline, just do it within 1 year from now. Upload to moodle and write me an email.

Lab Project

- **Work to be done:**

- Prepare your data
- Compare at least two prediction methods, after fine-tuning their parameters
 - One method from scikit learn
 - One method beyond scikit-learn, e.g., with LightGBM or XGBoost or CatBoost
- Evaluate through Kaggle if possible
- Investigate importance of features
- Investigate instances with the most correct predictions and with the most wrong predictions. Do they have some peculiarities? Any strange feature distribution?
- Can be done in groups, multiply the work by the size of the group

- **Evaluation:**

- Quality of the report
- Quality of the code (I'll ask about every single line of code)
- Depth of the analysis
- Project can be insufficient (the exam is not passed), or it contributes to 30% of the final mark