

## **Discussion about the 1<sup>st</sup> software project**

Desired Topic: *Image recognition with Machine Learning on Python*

### **A description of the programming software used, including used features**

Keras is an API designed for human beings, not machines. Keras follows best practices for reducing cognitive load: it offers consistent & simple APIs, it minimizes the number of user actions required for common use cases, and it provides clear & actionable error messages. It also has extensive documentation and developer guides.

Some of the features of interest are:

- **Prelabeled Datasets** – Keras provides a ton of prelabeled datasets that you can directly import and load.
- **Numerous implemented layers and parameters** – Keras contains numerous implemented layers and parameters like loss functions, optimizers, evaluations metric. We use these layers and parameters for construction, configuration, training and evaluation of neural networks.
- **Multiple methods for Data Preprocessing** - Keras also has a ton of methods for data preprocessing.