**DEEP LEARNING PROJECT PLAN SUMMARY**

* **Research objective**

Urban sound classification

* **Proposed methods**

Convolutionnal Neural Network CNN

* **Dataset**

Music Analysis Dataset : <https://github.com/mdeff/fma>

Million Song Dataset : <http://millionsongdataset.com/>

Open speech : <http://www.openslr.org/12/>

VoxCeleb : <http://www.robots.ox.ac.uk/~vgg/data/voxceleb/>

Urban Sound Classification : <https://datahack.analyticsvidhya.com/contest/practice-problem-urban-sound-classification/>

AudioSet : <https://research.google.com/audioset/?fbclid=IwAR3If9WF29_QwarlvzjwylQVYxxTKNhCAcpA0vanD_hhOe0e8XVfVcyFMYs>

* **Data preprocessing**
* **Estimation method**
* **Hyperparameters tuning**
* **Performence measure**
* **References**
* **Questions to ask**

1. What is the best architecture for sound classification?