Large-Scale Machine Learning PSL Week

- Organized by **Chloé-Agathe Azencott** and **Fabien Moutarde**

- Course objectives:

  – Overview of some challenges & solutions when applying ML to **large-scale** problems

  – Current applications and challenges in science & industry

- **Pre-requisites:** familiarity with ML, scikit-learn, tensorflow or keras

Mon	09:00-12:15	**Introduction to large scale ML & optimization** Katia Antonenko
	13:45-17:00	Lab 1
Tue	09:00-12:15	**Deep generative models** Gabriel Victorino Cardoso
	13:45-17:00	Lab 2
Wed	09:00-12:15	**Natural language processing** Antoine Recanati & Marc Michel (Sancare)
	13:45-17:00	Lab 3
Thu	09:00-12:15	**Deep reinforcement learning** Fabien Moutarde
	13:45-17:00	Lab 4
Fri	09:00-12:15	Lab 5 (stochastic gradient descent)
	13:45-17:00	**Systems for large scale ML** Chloé-Agathe Azencott

Evaluation

- Part of the **Certificat Mineure Data** of PSL

- **Sign-in sheet**

- **Grade** will be based on **labs**

    – Turn in your notebook **at the end of the day** on **Moodle**

Course material

- On **Moodle**

- **Course website:** https://link.infini.fr/lsml25