

Advanced machine learning

ECTS : 4

Volume horaire : 24

Description du contenu de l'enseignement :

This research-oriented module will focus on advanced machine learning algorithms, in particular in the Bayesian setting 1) Bayesian Machine Learning (with Moez Draief, chief data scientist CapGemini) - Bayesian linear regression - Gaussian Processes (i.e. kernelized Bayesian linear regression) - Approximate Bayesian Inference - Latent Dirichlet Allocation 2) Bayesian Deep Learning (with Julyan Arbel, CR INRIA) - MCMC methods - variational methods 3) Advanced Recommendation Techniques (with Clement Calauzene, Criteo)

Compétence à acquérir :

Probabilistic, Bayesian ML and recommendation systems

Mode de contrôle des connaissances :

- Chaque étudiant devra présenter un papiers de recherche

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