OPTION _S8 **Spring Semester** **Graduate**	**Option S8**	**6 credits** **Individual work: 50%** **Group work: 50%**
Prerequisite: none		

DITN_2810	**Artificial Intelligence and Big Data**	**Language** 
Lecture: 36		**Lab work: 28**

This elective course is an introduction to artificial intelligence and its application to the processing of big quantities of data. Classification and prediction questions will be studied through different AI methods in order to find solutions for automatic image indexation or for recommendation systems.

Contents

- Data mining, introduction to data bases
- Statistical learning, linear classifier, neuron networks, decision trees
- Introduction to deep learning
- Visual recognition, image interpretation
- Recommendation systems, user profile generation

Textbooks

- Deep Learning, Ian Goodfellow and Yoshua Bengio and Aaron Courville, MIT Press, 2016, http://www.deeplearningbook.org
- Pattern Recognition and Machine Learning, Christopher Bishop, Information Science and Statistics, 2006

Partners: Criteo, Qwant