### Summary
This course provides an overview of key advances in continuous optimization and statistical analysis for machine learning. We review recent learning formulations and models as well as their guarantees, describe scalable solution techniques and algorithms, and illustrate the trade-offs involved.

### Content
The course consists of the following lectures (2h each)

2. **Lecture 2**: Generalized linear models. Logistic regression.

### Learning Prerequisites
**Required courses**
Previous coursework in calculus, linear algebra, and probability is required. Familiarity with optimization is useful.
Familiarity with python, and basic knowledge of one deep learning framework (Pytorch, TensorFlow, JAX) is needed.

Resources
Moodle Link
• https://go.epfl.ch/EE-556