Topic	References	Timeline
Basic concepts		**1 weeks**
Topic 1 What is Machine learning	HOML Ch. 1 / ISL Ch. 2	Tue, Oct 18
Topic 2 – A Machine Learning Project	HOML Ch. 2 / ISL Ch. 2	Wed, Oct 19
Topic 3 – Resampling methods and Fine-tuning	ISL Ch. 3 / HOML Ch. 2 / IMLP Ch. 5	Thu, Oct 20
Supervised learning		**3 weeks**
Topic 4 – Classification	HOML Ch. 3 / ISL Ch. 4	Mon - Tue, Oct 24 - 25
Topic 5 – Tree-based Methods	HOML Ch. 1 & ISL Ch. 2	Wed - Mon, Oct 26-31
HW#2 Lab session		Wed, Nov 2
Topic 6 – Neural Networks	HOML Ch. 1 & ISL Ch. 2	-
Unsupervised Learning		**2 weeks**
Topic 7 – Dimensionality Reduction	HOML Ch. 1 & ISL Ch. 2	Mon - Tue, Nov 7 - 8
Topic 8 – Clustering	HOML Ch. 1 & ISL Ch. 2	Mon - Tue, Nov 14 - 15
HW#3 Lab session		Tue, Nov 16
Advanced topics		**1 day**
Deep Computer Vision Using Convolutional Neural Networks	Emmanuelle Mendes Pino (UAH)	Wed, Nov 29
Natural Language Processing	-	Wed, Nov 30