

Wk			Title	Type	Topics	Quiz	Hand in	Géron (Ed2)	Bradski
35	1/A	28/08/2023	Basic principles & set-up	Theory	Introduction Organization Why machine learning? Machine learning approaches Learning pipeline				
36	2/B	04/09/2023		Hands-on	Recap of workshop organization Assignment introduction ML portfolio template How to start? Conditioned acquisition Set-up Raspberry Pi with OpenCV and sci-kit learn			1-22	769-779
37	3/C	11/09/2023	Preparing the data	Theory	Thinking about data Splitting your data Feature engineering Exploring your data Data preparation			23-3435-83	493-498 511-512 526-545 770-771
38	4/D	18/09/2023		Hands-on	Python primer Numpy Data collection example script				
39	5/E	25/09/2023	Supervised Machine Learning	Theory	Classification k-nearest neighbors Support vector machines Decision trees Random forests Bagging and boosting			85-109 153-1	799-848 859-864 875-906
40	6/F	02/10/2023		Hands-on	Basic segmentation and feature extraction Splitting your data Exploratory data analysis Feature engineering Data preparation	1 ML principles Classification			
41	7/G	09/10/2023		Hands-on	OpenCV Python Tutorial				
42		16/10/2023		Holiday					
43	8/H	23/10/2023		No classes					
44	9/I	30/10/2023		No class			Prelim report data acq & prep (start of the week)		
45	1/A	06/11/2023	Regression	Theory	Linear regression Logistic Regression Lasso Regression Classification and regression			111-152 162-165 183-184	864

46	2/B	13/11/2023		Hands-on	Sci-kit learn Training a classifier Thinking about performance Hyperparameter tuning Visualizing a Decision Tree				
47	3/C	20/11/2023	ML performance	Theory	Confusion matrix Evaluating classifiers Log loss Learning curves Learning curve exercise		Feedback on other groups' preliminary report		
48	4/D	27/11/2023		Hands-on	Cross-validation Learning curves Classification and regression Model deployment and evaluation	2 Data		79-81 88-100 102-105 130-140	864
49	5/E	04/12/2023	Unsupervised Machine Learning	Theory					
50	6/F	11/12/2023	Work on project	Hands-on	Work on project			235-267 213-233	786-792
51	7/G	18/12/2023	Artificial Neural Network (ANN)	Theory		3 Supervised ML & ML performance			
52		25/12/2023	Holiday						
1		01/01/2024	Holiday						
2	8/H	08/01/2024	Work on project	project	Work on project				
3	9/I	15/01/2024		No class		All resits			
4	10/J	22/01/2024		No class			Full report		
5	1/A	29/01/2024							
6	2/B	05/02/2024							