



Data Science: Machine Learning with Python (S70) 22 -26 July 2024

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Day	Time	Туре	Description	Location
	9.00- 10.30	Lecture	Introduction to Machine Learning, exploratory data analysis, visualization	Victor J. Koningsberger building, room 2.28
	10.45- 11.45	Practical	Practical with Python on exploring datasets and visualization	
	11.45- 12.15	Discussion	Discussion of the practical	
Monday	12.15- 13.45	Lunch	Lunch break	
Mon	13.45- 15.15	Lecture	Regression and feature processing, evaluation of regression	
	15.30- 16.30	Practical	Practical on regression	
	16.30- 17.00	Discussion	Discussion of the practical	

Day	Time	Туре	Description	Location
Tuesday	9.00- 10.30	Lecture	Classification models, evaluation of classification task, cross validation	Victor J. Koningsberger building, room 2.28
	10.45- 11.45	Practical	Practical on a classification task	
	11.45- 12.15	Discussion	Discussion of the practical	
	12.15- 13.45	Lunch	Lunch break	
	13.45- 15.15	Lecture	Tree based models	
	15.30- 16.30	Practical	Practical on tree based models	
	16.30- 17.00	Discussion	Discussion of the practical	





Day	Time	Туре	Description	Location
Wednesday	9.00- 10.30	Lecture	Introduction to neural networks	Victor J. Koningsberger building, room 2.28
	10.45- 11.45	Practical	Practical for basic concepts of neural networks	
	11.45- 12.15	Discussion	Discussion of the practical	
	12.15- 13.45	Lunch	Lunch break	
	13.45- 15.15	Lecture	Neural networks – part 2	
	15.30- 16.30	Practical	Practical on neural networks	
	16.30- 17.00	Discussion	Discussion of the practical	

Day	Time	Туре	Description	Location
	9.00- 10.30	Lecture	Dimensionality Reduction, clustering	Victor J. Koningsberger building, room 2.28
	10.45- 11.45	Practical	Practical on clustering	
	11.45- 12.15	Discussion	Discussion of the practical	
sday	12.15- 13.45	Lunch	Lunch break	
Thursday	13.45- 15.15	Lecture	Hidden Markov models	
	15.30- 16.30	Practical	Practical on HMM	
	16.30- 17.00	Discussion	Discussion of the practical	





Day	Time	Туре	Description	Location
	9.00- 10.30	Lecture	Active learning	Victor J. Koningsberger building, room 2.28
	10.45- 11.45	Practical	Active learning	
	11.45- 12.15	Discussion	Discussion of the practical	
ау	12.15- 13.45	Lunch	Lunch break	
Friday	13.45- 15.15	Lecture	Fairness in Machine Learning	
	15.30- 16.30	Practical	Practical about fairness in ML	
	16.30- 17.00	Discussion	Discussion of the practical	