Machine Learning - MBA 2024 - Fall Term

Session	*Topic*	*Documents*
30 sep	*What is machine learning?*	[ML-01] What is machine learning?
01 oct	*Linear regression*	[ML-02] scikit-learn [ML-03] Linear regression [ML-04] Example - House sales in King County
04 oct	*Logistic regression*	[ML-05] Logistic regression [ML-06] Example - The churn model
07 oct	*Discussion*	
08 oct	*Decision trees*	[ML-07] Decision trees [ML-08] Example - The spam filter
Assignment		
14 oct	*Discussion of the assignment*	
15 oct	*Imbalanced learning*	[ML-09] Imbalanced learning [ML-10] Example - Direct marketing of term deposits
Assignment		
28 oct	*Discussion of the assignment*	
29 oct	*Model validation*	[ML-11] Model validation [ML-12] Example - Polycystic ovary syndrome (PCOS) diagnosis
11 nov	*Ensemble models*	[ML-13] Ensemble models [ML-14] Clothing store marketing promotion
12 nov	*Neural networks*	[ML-15] Neural networks [ML-16] Example - Airline passenger satisfac-tion
18 nov	*Image classification*	[ML-17] Example – The MNIST data (1)
19 nov	*Deep learning*	[ML-18] Deep learning [ML-19] Example – The MNIST data (2)
Assignment		
22 nov	*Transfer learning*	[ML-20] Transfer learning [ML-21] Example - The dogs and cats data set
25 nov	*Discussion of the assignment*	
26 nov	*Embeddings*	[ML-22] Embeddings [ML-23] Example - Fake news detection
Assignment		
02 dec	*Discussion of the assignment*	

03 dec	*Large language models(1)*	[ML-24] Large language models
09 dec	*Large language models(2)*	[ML-25] LLM API tutorial
10 dec	*Semantic search*	[ML-26] Example – Semantic search of COVID-19 articles