

Online Machine Learning School

7-11 October 2024

Days	Time (CEST)	Topic
Day 1 Oct 07, 2024	09:30-10:30	Introduction to Machine Learning Concepts and Tools Seminar (Prof. Dr. Nikolaos Koutsouleris)
	10:30-11:00	Outline of Kaggle Machine Learning competition
	11:00-12:00	Group tutorial: Introduction to NeuroMiner, cross-validation and preprocessing
	12:00-13:00	Break
	13:00-15:00	Tutorial continues at own pace using Kaggle competition data
	15:00-15:45	Group tutorial: Wrap up and question time
	16:00-17:00	Guest lecture: Biases in Machine Learning (Prof. Carmen Peláez-Moreno)
Day 2 Oct 08, 2024	09:30-10:30	Machine Learning Algorithms, Optimization & Multi-site Data Correction Seminar (Dr. Dom Dwyer)
	10:30-12:00	Group tutorial: Algorithms, optimization and multi-site correction
	12:00-13:00	Break
	13:00-15:00	Tutorial continues at own pace using Kaggle competition data
	15:00-15:45	Group tutorial: Wrap up and question time
	16:00-17:00	Guest lecture: Translational Neuromodeling and Computational Psychiatry (Prof. Dr. Klaas Enno Stephan)
Day 3 Oct 09, 2024	09:30-10:15	Multi-modal Data Analysis & Fairness in Machine Learning Seminar (Dr. Paris Alexandros Lalousis)
	10:30-12:00	Group tutorial: Feature selection and model application
	12:00-13:00	Break
	13:00-15:00	Tutorial continues at own pace using Kaggle competition data
	15:00-15:45	Group tutorial: Wrap up and question time
	16:00-17:00	Guest lecture: Artificial Intelligence (AI) in Management (Prof. Stefan Feuerriegel)
Day 4 Oct 10, 2024	09:30-10:15	Transparent and Interpretable Machine Learning (Dr. Ariane Wiegand)
	10:30-11:30	FAQ with the NM developer – Prof. Nikolaos Koutsouleris
	11:30-12:00	Group tutorial: Interpretable machine learning
	12:00-13:00	Break
	13:00-15:00	Tutorial continues at own pace using Kaggle competition data
	15:00-15:45	Group tutorial: Wrap up and question time, reminder of Kaggle competition
	16:00-17:00	Round Table Discussion with Guest Experts (TBA): Translational Challenges of AI in Mental Healthcare
Day 5 Oct 11, 2024	09:00-12:00	Kaggle competition continues with access to tutors
	12:00-12:15	Submission of final ML results to Kaggle
	12:15-14:00	Winners prepare short slides outlining their strategy
	14:00-15:00	Presentation of Kaggle competition results, winners present strategy, and wrap-up of the machine learning school