

# Online Machine Learning School

## 25<sup>th</sup> – 29<sup>th</sup> of September, 2023

Days	Time (CEST)	Topic
<b>Day 1</b> Sep 25, 2023	09:30-10:15	<b>Introduction to Machine Learning Concepts and Tools Seminar (Prof. Dr. Nikolaos Koutsouleris)</b>
	10:15-10:30	Discussion
	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	<b>Prof. Dr. Thomas Wolfers, University of Tübingen, Germany</b> Title TBA
<b>Day 2</b> Sep 26, 2023	09:30-10:15	<b>Machine Learning Algorithms, Optimization &amp; Multi-site Data Correction Seminar (Dr. Dom Dwyer)</b>
	10:15-10:30	Discussion
	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	<b>Guest lecture: TBA</b>
<b>Day 3</b> Sep 27, 2023	09:30-10:15	<b>Multi-modal Data Analysis &amp; Fairness in Machine Learning Seminar (Dr. Paris Lalouis)</b>
	10:15-10:30	Discussion
	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	<b>Prof. Dr. Munmun De Choudhury, Georgia Tech, USA</b> Title TBA
<b>Day 4</b> Sep 28, 2023	09:30-10:15	<b>Transparent and Interpretable Machine Learning (Dr. Ariane Wiegand)</b>
	10:15-10:30	Discussion
	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	<b>Prof. Dr. Tong Wang, University of Iowa, USA</b> Title TBA
<b>Day 5</b> Sep 29, 2023	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	<b>Presentation of Kaggle competition results, winners present strategy, and wrap-up of the machine learning school</b>