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| **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** | 09:00-12:00 | Kaggle competition continues with access to tutors |
| Oct 11, 2024 | 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** |

##### **Online Machine Learning School**

##### **7-11 October 2024**