Promotionskolleg Module 6800: Machine learning in applied economic analysis
September 4 to 8, 2023 (in presence in Bonn, Nussallee 19, seminar room)

For all material, see [github repository](#)
For assignment upload: Use https://uni-bonn.sciebo.de/s/blRvhc4gncIpyQI with PW 'ML_2023'

Assignment submission instructions:
1. Before uploading: Rename your file by appending "first name_ last name" to the end of the file name. Do keep the rest of the file name (e.g. *6800_Day1_FirstName_LastName.ipynb*).
2. Please upload your assignment (i.e. your jupyter notebook) into the folder in the .ipynb format.
3. Deadline for submission of the assignments is October 15, 2023.

Monday, Sep 4

10:00 – 12:00   Welcome, intro, prediction versus estimation, overfitting and regularization

12:30 – 14:00   Lunch Break

14:00 – 15:00   Continuation of the morning and Q&A

15:00 – 17:00   Supervised lab session with assignment

Tuesday, Sep 5
9:00 – 12:00   Trees, forests and ML model interpretation (Part 1)

12:00 – 13:30   Lunch Break

13:30 – 14:30   Continuation of the morning and Q&A

14:30 – 17:00   Supervised lab session with assignment

Wednesday, Sep 6
9:00 – 12:00   ML model interpretation (Part 2) and Intro Neural Networks

12:00 – 13:30   Lunch Break

13:30 – 14:30   Continuation of the morning and Q&A

14:30 – 17:00   Supervised lab session with assignment

Thursday, Sep 7

9:00 – 12:00   Neural Networks continued, ML and causal inference (Part 1)

12:00 – 13:30   Lunch Break

13:30 – 14:30   Continuation of the morning and Q&A

14:30 – 17:00   Supervised lab session with assignment

Friday, Sep 8

9:00 – 11:30   ML and causal inference (continued) and Q&A

11:00 – 13:30   Q&A session, brief own (verbal) research pitches related to ML with the possibility to discuss approaches and questions

13:30 – 14:00   Feedback and farewell