

# **Explainable machine learning**

## **Course details**

**Ribana Roscher**

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These slides have been created by Ribana Roscher.

## Course details

- Lecturer: Ribana Roscher
- Office: Niebuhrstraße 1A, 2nd floor
- [ribana.roscher@uni-bonn.de](mailto:ribana.roscher@uni-bonn.de)
- Tutor: Ahmed Emam ([aemam@uni-bonn.de](mailto:aemam@uni-bonn.de)) and Mohamed Ibrahim
- Always ask if you have questions

## Lecture topics

1. Introduction to explainable machine learning
2. Looking into a neural network – visualizing what was learned
3. Global model agnostic approaches
4. Local model agnostic approaches
5. Interpretation by backward propagation and concept discovery

# Course structure

- 11.10.** Lecture
- 18.10. No lecture (week blocked)
- 25.10.** Lecture
- 01.11.** Public holiday (different day?)
- 08.11. No lecture (different day?)
- 15.11. No lecture (week blocked)
- 22.11.** Lecture
- 29.11.** Lecture
- 06.12** Dies Academicus
- 12.12.** Seminar topic discussions
- 10.01.** Student presentations
- 31.01.** Final presentation

# Course structure

- 2 exercises (after the 2. and 4. lecture)
  - Connected to the lectures
  - Groups no larger than 2 students
  - No extra exercise time slot, but office/zoom hours
  - Time for each exercise: two weeks
  - Ask if you need an extension, copied exercises are 0 points for both groups
- Seminar
  - Short presentation and report/poster/podcast/video about a topic of interest related to the lecture
  - Groups of 1-2 students