Industrial Data Science

▶ Lecture and Exercises (2 + 2)
▶ Department of Statistics, Department of Computer Science, Department of Mechanical Engineering

▶ Course Content:
  ▪ Introduction, data and data analysis in industrial environments (Prof. Jochen Deuse)
  ▪ Data Management (Prof. Jens Teubner)
  ▪ Univariate statistics, correlation and regression, feature selection (Prof. Markus Pauly)
  ▪ Decision trees, random Forests, cluster analysis and topic modeling (Prof. Erich Schubert)
  ▪ Model selection (Prof. Markus Pauly)
  ▪ SVMs and neuronal networks (Prof. Erich Schubert)
Industrial Data Science

- **Suitable modules:** MS 6,7, MD Methods, MS VI, VII, MD IX, X (4,5 ECTS points)
- **Dates:**
  - Lecture: Friday 08:15-09:45 am
  - Exercises: Friday 10:15-11:45 am
- **Language:** English
- **Prerequisites:** Basic knowledge in math and programming
- **Homepage:**
  https://www.statistik.tu-dortmund.de/?id=3034

**Follow-up course:** Industrial Data Science 2 which can be credited as a Seminar or with additional effort as Case Studies 2. The prerequisites will be explained in the first INDAS 1 lecture.