

# Administrative Regulations

## Elements of Data Science and Artificial Intelligence

Prof. Dr. Jens Dittrich

[bigdata.uni-saarland.de](http://bigdata.uni-saarland.de)

October 17, 2019

# Agenda

- Goals of this Lecture
- Administrative regulations

## Goals of this Lecture

1. Top-Down Introduction to the field “Data Science and Artificial Intelligence” (DSAI); rather than bottom-up as in our undergrad lectures
2. develop basic understanding of typical application scenarios in DSAI
3. develop basic understanding of typical methods in DSAI
4. get started with important tools, e.g. Python
5. in summary: develop a good feeling for what DSAI is about

# Language, CMS, and Lecture

- Language:
  - all materials in English, lectures in German, tutorials in English
- CMS:
  - <https://cms.sic.saarland/edsai19/>
  - please register
  - you do not have to register for LSF **yet**
  - all material and hand-ins will be handled through CMS **only!**
- Lecture:
  - Mondays 10:15–12:00
  - Thursdays 12:15–14:00
  - lecture hall E1 3, HS II
  - see calendar: <https://cms.sic.saarland/edsai19/termine/calendar/index>
  - Slides and notebooks available in CMS after every lecture:  
<https://cms.sic.saarland/edsai19/materials/>

## Professors (and their research areas)

- Prof. Dr. Vera Demberg (Natural Language Processing)  
<https://www.uni-saarland.de/lehrstuhl/demberg/members/team.html>
- Prof. Dr. Jens Dittrich (Big Data & Data Science)  
<https://bigdata.uni-saarland.de/people/dittrich.php>
- Prof. Dr. Jörg Hoffmann (Artificial Intelligence)  
<http://fai.cs.uni-saarland.de/hoffmann/>
- Prof. Dr. Bernt Schiele (Machine Learning)  
<https://www.mpi-inf.mpg.de/departments/computer-vision-and-machine-learning/people/bernt-schiele/>

# Tutors (and their roles and research areas)

- Supervising Ph.D./Postdoc Tutors:
  - Joris Nix (Tutor in chief, CMS, Python, Vagrant, VirtualBox)
  - Moritz Böhle (Machine Learning)
  - Marcel Steinmetz (Artificial Intelligence)
  - Dr. Frances Yung and Ernie Chang (Natural Language Processing)
  - Immanuel Haffner (Big Data)
- Student Tutors:
  - Meisyarah Dwiastuti
  - Doreen Osmelak
  - Hiep Tran
- see <https://cms.sic.saarland/edsai19/tutors>

## Exercises

- assignment available every Thursday afternoon
- you have to hand-in your solution latest one week afterwards (every Thursday by 12:00 noon)
- hand-in of source code: only the specific Jupyter cell as text file (will be specified in detail on each assignment)
- you must hand-in in groups of three students, only one of you has to hand-in but must write all three names and immatriculation numbers on the first page of your solution
- during the semester you may have at most two assignment sheets with 0 points
- on average you must obtain 50% of the points in total throughout the semester

### Important

All hand-in via CMS **only**, emails/printouts/etc **will not** be considered.

# Tutorials, Exams, Certificates

- Tutorials:
  - Mondays and Tuesdays, see CMS
  - please vote for a tutorial in CMS
- Exams:
  - Final exam on 06.02.2020 in lecture hall E1 3, HS II and lecture hall E2 5, HS II
  - Re-exam date and location TBD
- Certificates:
  - Grade = 100% Final exam or Re-exam (better grade counts)
  - no printed certificates, grades will be handled electronically
  - Exceptions: Erasmus, non-CS programs, etc. (if you are unsure, ask us)



# Python

- Don't panic (if you never programmed anything before)!
- Python is the most important software tool in DSAI.
- You will need it just everywhere.
- You will learn very basic Python in this lecture from scratch.
- we will start Oct 28th
- Note: Python 3.x **not** Python 2.x!
- Jupyter Notebooks
- we recommend that you use vagrant and VirtualBox to run Python  
<https://cms.sic.saarland/edsai19/4/Instructions>  
(the first exercise will be just about learning Vagrant)