



Summer School ML

I Introduction

Prof. Dr.-Ing. Janis Keuper



INSTITUTE FOR MACHINE
LEARNING AND ANALYTICS



Outline

- **Introduction**
 - Organizers
 - Instructors
- **Schedule**
- **Tools**
- **Schedule Day I**

Einführung



KI-Labor Südbaden:

- Informationen rund um KI / ML
 - Info Tage
 - Veranstaltungsreihen
- Schulungen + Weiterbildungen
- KI-Beratung für Unternehmen
- KI Demonstratoren

www.ki-labor-baden.de

Gefördert durch



Wirtschaft digital
Baden-Württemberg

Einführung



Gefördert durch



Wirtschaft digital
Baden-Württemberg



INSTITUTE FOR MACHINE
LEARNING AND ANALYTICS

- ~12 Professuren an der HSO
 - + Externe Partner
- 50% KI/ML Methoden Forschung
- 50% Anwendungen in
 - Robotik
 - Maschinenbau
 - E- und Nachrichtentechnik
 - Bio/Medizin

www.imla.ai

Einführung

Dozenten



Prof. Dr. Daniela Oelke



Prof. Dr. Klaus Dorer



Prof. Dr.-Ing. Janis Keuper



Pfarrer Dr. Gernot Meier



Sebastian Hoch, MSC

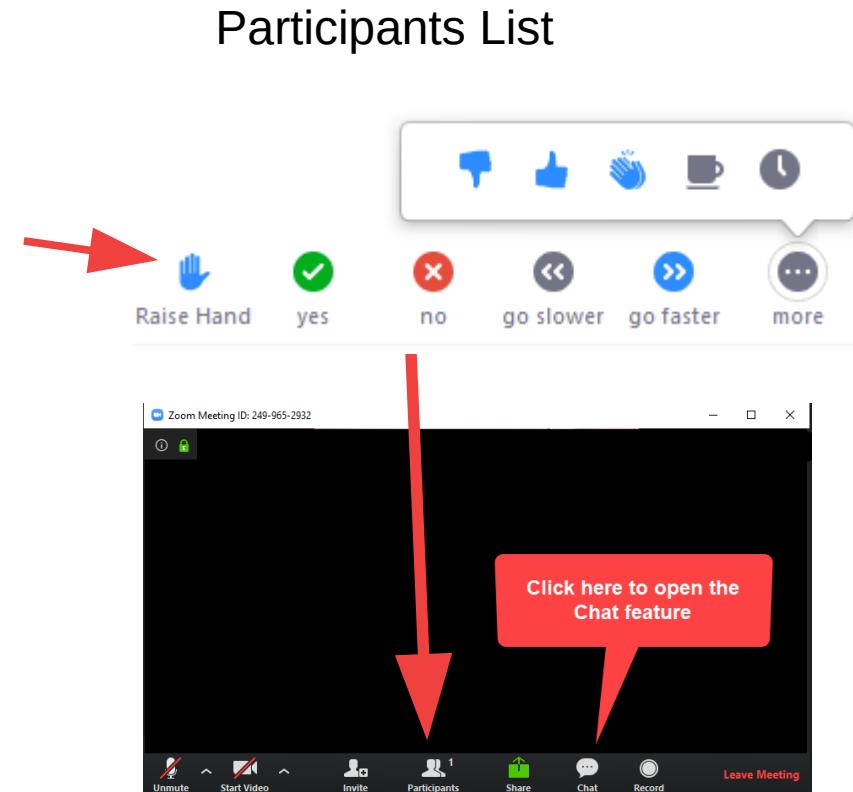
Zeitplan

	Mo	Di	Mi	Do	Fr
9 Uhr					
10 Uhr	Introduction to ML + Python <i>Keuper</i>	Non-Linear Models <i>Keuper</i>	Unsupervised Learning <i>Keuper</i>	Deep Learning <i>Dorer</i>	Language Processing <i>Oelke</i>
12 Uhr					
13 Uhr	Linear Models <i>Keuper</i>	AI Ethics <i>Meier</i>	Use Cases	Deep Learning <i>Dorer</i>	Visual Analytics <i>Oelke</i>
16 Uhr					
17 Uhr					

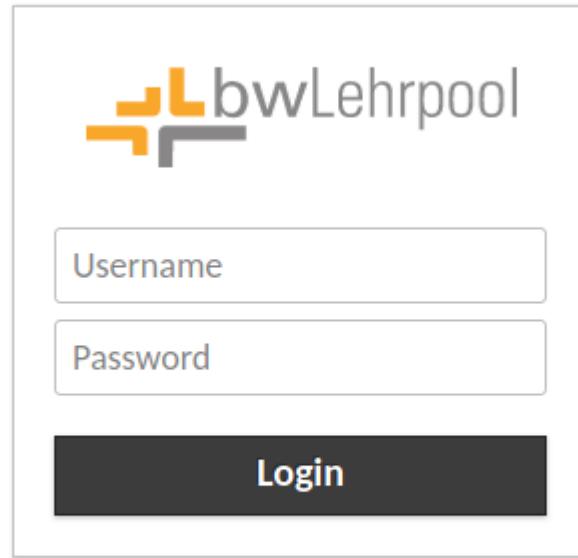
Tools: Zoom

Zoom hints:

- Use Chat to ask questions during talks
 - Use feedback buttons (yes/no ...)
 - Raise hand during discussions
-
- We will use breakout sessions with small groups during the lab – call for held when needed...



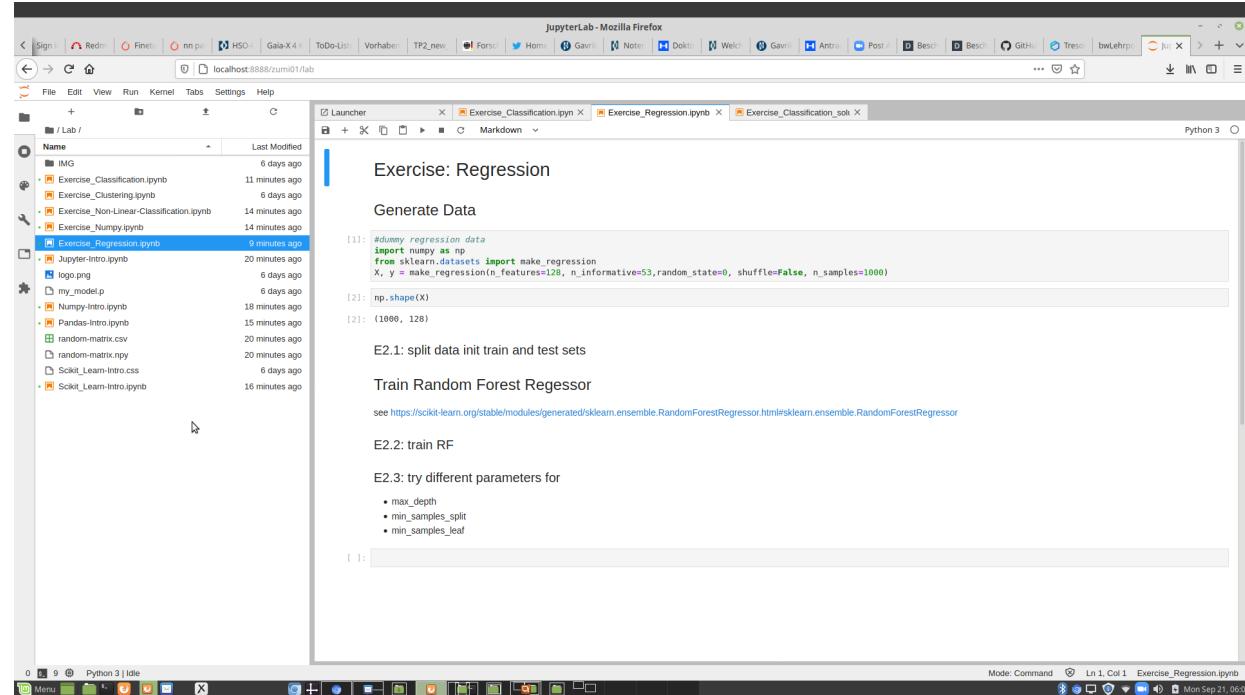
Tools: bwLehrPool



BWLEHRPOOL

<https://bwlehrpool-remote.hs-offenburg.de>

Tools: Jupyter Notebooks



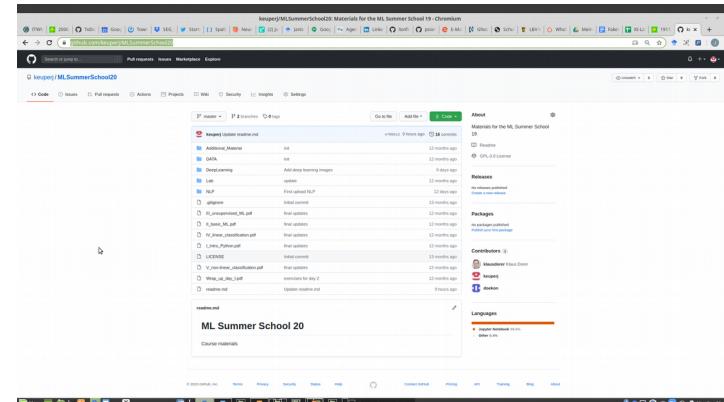
Kursmaterialien

Slides + Code

<https://github.com/keuperj/MLSummerSchool20>

Videoauszeichnungen

Link via mail



Zeitplan Heute

Mo	
9 Uhr	
	Introduction to ML + Python <i>Keuper</i>
12 Uhr	Intro
	ML Basics
13 Uhr	Intro Python I
16 Uhr	Intro Python II
	Linear Models
	Intro Scikit-Learn
	Random Forest
17 Uhr	Freie Übungen