Exercise Submission System

Exercises: Schedule

Exercise 01: Organization Exercise 02: Math Recap	Intro
Exercise 03: Dataset and Dataloader Exercise 04: Solver and Linear Regression Exercise 05: Neural Networks Exercise 06: Hyperparameter Tuning	Numpy (Reinvent the wheel)
Exercise 07: Introduction to Pytorch Exercise 08: Autoencoder	Pytorch/Tensorboard
Exercise 09: Convolutional Neural Networks Exercise 10: Semantic Segmentation Exercise 11: Recurrent Neural Networks	Applications (Hands-off)

Exercises: 8 Submissions

Exercise 01: Organization Exercise 02: Math Recap	Intro
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Exercises: Submissions & Bonus

- Starting from exercise 3:
  - practical exercises, labeled as submissions
  - Disclaimer:
    - submissions have a fixed due date until they have to be solved and successfully uploaded.
    - No exceptions

- If you pass 7/8 submission you will receive a -0.3 bonus on the exam grade

Submission Overview

- Every exercise has maximal one submission

- Every submission has a submission goal, e.g.,
  - Goal: Implement a sigmoid function
  - Reachable points [0, 100]
  - Threshold to clear exercise: 100
  - Submission start: <date>
  - Submission deadline: <date>

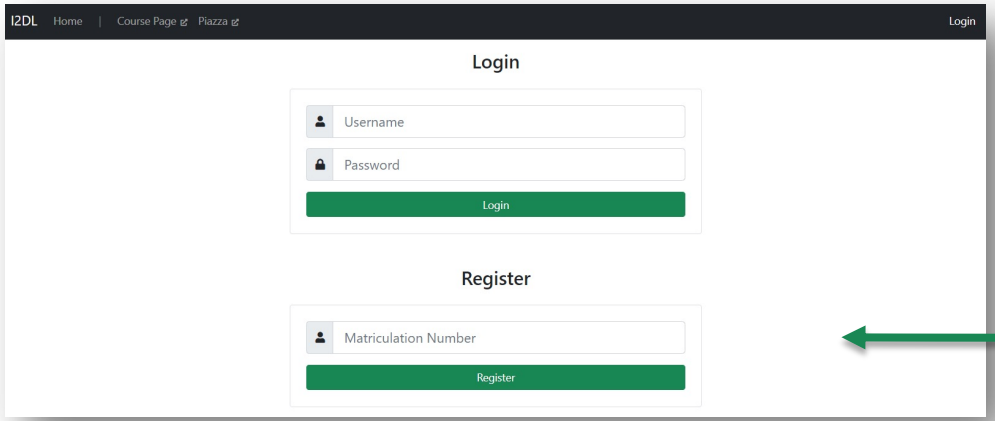
Python Setup

- New users: install python3.7
  - `README.md`
- "Advanced" users:
  - Virtual environment via anaconda/whatever
  - Regular system python install in this environment
    - `pip install -r requirements.txt`

New python users: http://nbviewer.jupyter.org/github/jrjohansson/scientific-python-lectures/blob/master/Lecture-1-Introduction-to-Python-Programming.ipynb

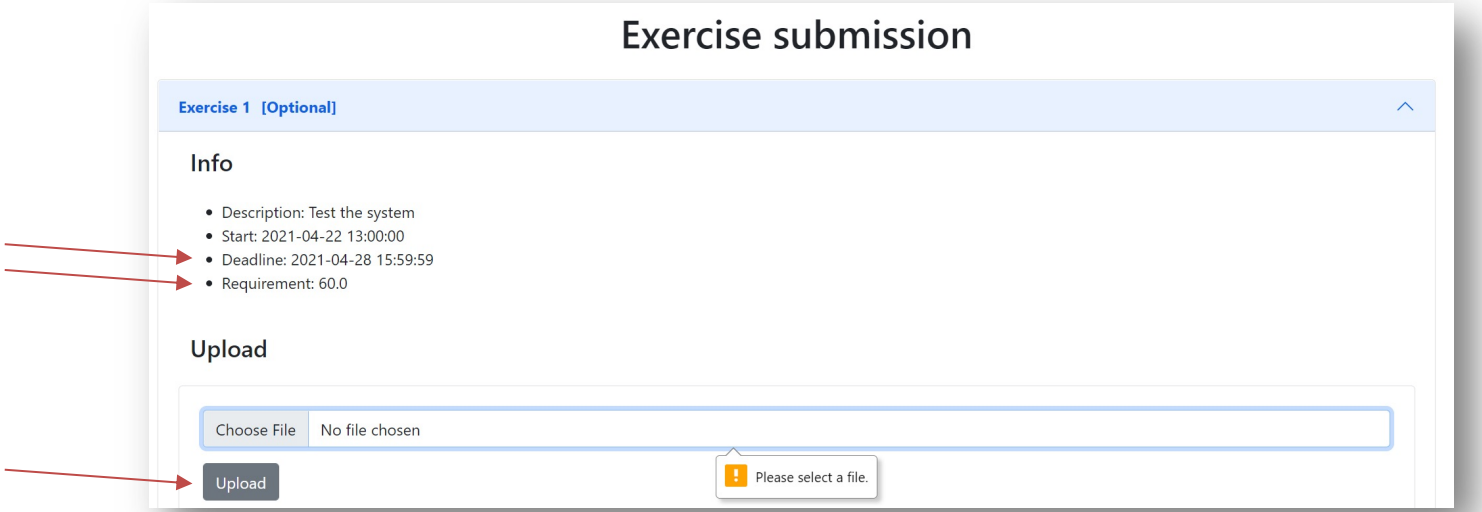
How to submit exercises

- Register at our submission webpage (i2dl.vc.in.tum.de)
  - Sign up with valid matriculation number
  - Get `username` and `password` to your TUM email address
  - Un-enrolled TUM students and LMU students: fill the following form to request a user



How to submit exercises

- Submit models:
  - Upload created zip file (not .7z or other formats)
  - Note: You will submit your whole code folder as well as your trained models (there are file limits)



How to submit exercises

- Wait for the email with your score or refresh the page
  - Uses email that you signed up with
  - In case of error, read the email

Your previous submissions

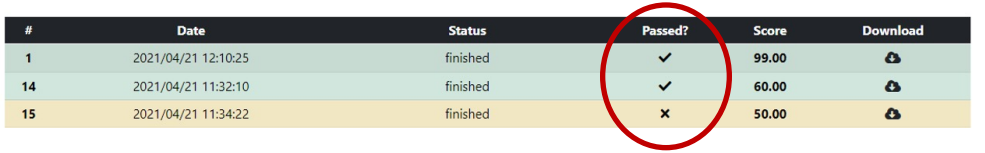
#	Date	Status	Passed?	Score	Download
1	2021/04/21 12:10:25	finished	✓	99.00	
14	2021/04/21 11:32:10	finished	✓	60.00	
15	2021/04/21 11:34:22	finished	✗	50.00	
16	2021/04/21 12:03:26	queued [cancel job]	✗	-	
19	2021/04/21 11:40:42	cancelled	✗	-	
20	2021/04/21 05:29:25	error	✗	-	
21	2021/04/21 05:28:24	submitted	✗	-	

Exercises FAQ

- I don't want to code in notebooks. Can I use my favourite IDE?
  - Yes
- Cool, so I can just change the whole code structure?
  - No
  - You can write any helper functions, but keep the skeleton classes intact (i.e., don't rename important functions or variables)
  - You will upload all files and those will be archived on our end

Threshold and Submission FAQ

- How do I know that I passed?
  - Once you submit a score that surpasses the threshold, you will receive an email that contains a message which tells you that you passed this submission



#	Date	Status	Passed?	Score	Download
1	2021/04/21 12:10:25	finished	✓	99.00	
14	2021/04/21 11:32:10	finished	✓	60.00	
15	2021/04/21 11:34:22	finished	×	50.00	

- Help, I got this message a second time!?
  - You will receive this message every time you submit an exercise that exceeds the score

Threshold and Submission FAQ

- I submitted another model which was below the threshold. Do I have to resubmit the old model?
  - No, once one models surpasses the threshold, you are done with this submission (for the bonus)

- Is there a limit on how often I can submit?
  - You shouldn't be worried about it

Warnings

- Cheating & Plagiarism
  - All your code is uploaded and logged
  - Abusing the submission system will exclude you from the exercises and exam

- Only submit the necessary files, not the datasets (use the submission script to prepare the zip)

- Submit ahead of deadline, your job might be queued if many students submit in the same time

Copyright

- All lecture material, including the exercises is copyrighted
  - All rights reserved
  - Do not redistribute, do not share solutions
- May I use GitHub for the exercises?
  - Yes, but only as a private repository

Live Demo

Upcoming Lecture

- **Today**: Exercise 1 & 2 and Tutorial 1 & 2 released
- **Note**: Both Exercise 1 & 2 are options, but we encourage you to do them, especially Exercise 1 for setting up Python environment
- **Next lecture**: Lecture 3: Introduction to Neural Networks, Computational Graphs
- **Next Thursday**: Tutorial session 3: Dataset and Dataloader; Solutions to exercise 2

See you next week!