Benjamin Gallusser

Machine Learning Enthusiast

Contact

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Coding skills

👍👍 Python, C++, C
👍 Java, Matlab, JS
ML: tensorflow, pytorch
web: Django, Typo3

Personal info

date of birth
03 Apr 1993

nationalities
CH, GER, USA

languages
🇩🇪 native
🇬🇧 & 🇪🇸 fluent
🇫🇷 proficient
🇮🇹 intermediate

interests
complex board games
creating & playing music
doing competitive sports

Education

2016 – 2019	**M.Sc. Computer Science** *at the #2 CS department worldwide (THE ranking 2019)* *current GPA: 5.4 on a scale from 6 (excellent) to 1 (failure)*	ETH Zürich
2012 – 2016	**B.Sc. Informatics** *GPA: 1.7 on a scale from 1 (excellent) to 5 (failure)* *student exchange (two semesters) at Universidad Austral de Chile*	TU München
2011	**German high school diploma (Abitur)** *GPA: 1.0 on a scale from 1 (excellent) to 6 (failure)*	Gymnasium Penzberg

Selected academic projects

- **Generative Adversarial Networks (GAN)** ⬈ for document style transfer, achieving state-of-the-art results
- Interdisciplinary analysis of the **legal, economic, ethical and political implications of the big data revolution** in a four-months seminar
- Single-core **high performance implementation** ⬈ of Latent Dirichlet Allocation in C (11x speedup compared to the author's C implementation)
- **Chatbot** ⬈ capable of conducting a casual conversation, trained on movie conversational data based on seq2seq and MMI cost function
- **Deep Learning** ⬈ (Bachelor's thesis) for Recognition of Protein Domains from Contact Maps, simplifying a step in a protein structure prediction pipeline
- **Sentiment Classification** ⬈ of Tweets using an LSTM network (87% accuracy)

Working experience

Nov/18 – Feb/19	**Data Science Consulting Intern** *working on Predictive Maintenance systems and Advanced Analytics studies + capability building*	McKinsey & Company
Oct/17 – Jul/18	**Teaching Assistant for Advanced Machine Learning** *creating and holding large tutorial sessions (~100 participants) for the CS Master's courses Natural Language Understanding and Advanced Machine Learning*	ETH Zürich
Nov/16 – Mar/18	**Research Assistant**	Institute for Machine Learning, ETH Zürich

- collaborating on sleep stage classification based on CNN and HMM with accuracy comparable to human experts (paper under review at PLOS Comput. Biol.)
- full design, development and system administration of the web service ⬈; collaborators upload large sleep signals, which are evaluated on GPU.

Apr/14 – May/14	**Private math tutor** *teaching high school graduates*	Nachhilfeinstitut Danzer
Jul/13 – Oct/13	**Back-end developer (internship)**	Datamints GmbH

- developing internal project status presentation software for weekly team meetings
- side project: Chrome add-on to combine online search with searching the company's knowledge base

Sep/11 – Nov/12	**Warehouse Associate (internship)** *introduction to logistics, supply chain management and customer support*	Klüber Lubrication North America