Benjamin Gallusser

Machine Learning Enthusiast



Education

ETH Zürich - M.Sc. Computer Science

2016 - 2019

GPA: 5.2 on a scale from 6 (excellent) to 1 (failure) Focus areas: Deep Learning, NLP, Computer Vision

Master's thesis at HHMI Janelia, USA

TU München - B.Sc. Informatics

2012 - 2016

GPA: 1.7 on a scale from 1 (excellent) to 5 (failure)

Student exchange (two semesters) at Universidad Austral de Chile

Gymnasium Penzberg – German high school diploma (Abitur)

2011

GPA: 1.0 on a scale from 1 (excellent) to 6 (failure)

Contact

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Coding skills

dede Python 44 C++. C Java, Matlab, JS ML: Pytorch, Tensorflow web: Django, Typo3

Personal info

date of birth 03 Apr 1993

nationalities CH, GER, USA

languages

native = fluent 💥 & 🔼 proficient intermediate

interests

creating & playing music complex board games traveling by bicycle competitive sports

Selected academic projects

- Graph Neural Networks C (Master's thesis, with Jan Funke) for supervoxel agglomeration in a 3d neuron reconstruction pipeline, working with terabytes of microscopy images
- Single-core high performance implementation of Latent Dirichlet Allocation in C (11x) speedup compared to the author's C implementation)
- Generative Adversarial Networks of for document style transfer, using Machine Learning to apply any existing layout to a PDF document without manual algorithm configuration
- Chatbot C 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)

Work experience

McKinsey & Company - Data Science Consulting Intern

Nov'18 - Feb'19

- developed a scalable algorithm to extract target events for predictive maintenance of medical diagnostic equipment deployed around the globe
- guided a team of client data engineers to optimize an industrial aluminum plant
- · overhauled technical material and programming tutorials for a one-week Advanced Analytics capability building

ETH Zürich — Teaching Assistant for Advanced Machine Learning Oct'17 - Jul'19

- created and held large tutorial sessions (~100 participants) for the CS Master's courses Natural Language Understanding and Advanced Machine Learning
- · supervised student projects in Natural Language Understanding, such as language modeling and story completion

Institute for Machine Learning, ETH Zürich - Research Assistant Nov'16 - Mar'18

- collaborated on sleep stage classification based on CNN and HMM with accuracy comparable to human experts, published in PLOS Computational Biology C
- designed, developed and administered the web service for performing GPU-accelerated inference on large sleep signals uploaded by various hospital research labs

Datamints GmbH – Back-end developer (internship)

Jul'13 - Oct'13

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