Clemens Hutter

Curriculum Vitae

Education

Sep 2018 -
present
MSc in Data Science, ETH Zürich, *Switzerland*.
- GPA: 5.89

Oct 2014 -
Sep 2018
BSc in Cognitive Science, Osnabrück University, *Germany*.
- GPA: 1.0 (out of 6.0 with 1.0 being outstanding)
- Top 3 in a class of ~80 students
- Major subjects: Mathematics, Computer Science, Artificial Intelligence, Machine Learning

Sep 2005 -
Jun 2013
Science Stream, Albertus Magnus Gymnasium, *Germany*.
- Abitur (passed my high school exit examinations)
- GPA: 1.0

Experience

Oct 2017 -
Mar 2018
Research Intern, University of Oxford, *UK*.
- Trained a spiking neural network on visual stimuli
- Quantified the information content of the network
- Developed performance measures
- Wrote my BSc thesis

Apr 2017 -
Jul 2017
Data Engineer, Inserve (legal technology startup), *Germany*, (part-time, 20 hours/ week).
- Developed machine learning-based methods to segment and classify dates in noisy legal documents
- Evaluated the performance of an evolutionary algorithm
- Developed and tested prototypes for 6 deep learning architectures, and expanded the best performing prototype using Apache Spark and Deeplearning4j

Mar 2017
Presenter, CeBIT (digital technology trade fair), *Germany*.
- Presented at the IBM stand a system that won the 2016 'Cognitive Farming Solutions' hackathon

Oct 2015 -
Feb 2017
Mathematics Tutor, Osnabrück University, *Germany*, 2 semesters (part-time, 30 hours/ month).
- Provided ~100 students with weekly tutorials for an introductory mathematics course
- Graded 24 homework sheets and 2 final examinations

Aug 2016 -
Oct 2016
Research Intern, Nottingham Trent University, *UK*.
- Developed a network that modeled the phototactic responses in the nematode C. elegans, and optimized the network parameters using metaheuristic methods
- Prepared a demonstration of predator behavior in a mobile robot (programmed in ROS and OpenCV)

Sep 2013 -
Mai 2014
Volunteer, Prem Sewa Shikshan Sangh (local charity), *India*.
- Taught English and Computer Science to ~50 students (aged 6 to 18) from poor, rural families
- Self-learned Hindi

Prizes and Scholarships

Sep 2019 -
Sep 2020
DAAD Graduate Scholarship, *Germany*.
- Awarded €1000 per month

Nov 2017
Oxford Hack (hackathon), *UK*.
- Was selected as one of 250 participants out of ~800 applicants
- Won prize (out of 5 awarded main prizes) with 3 teammates

Dec 2016
'Cognitive Farming Solutions' hackathon, *Germany*.
- Developed an expert system that provided farmers with suggestions on crop rotation and explanations for the suggestions through chatbots
- Won the first prize of €1500 with 2 teammates

Oct 2015 -
Oct 2017
Deutschlandstipendium (national scholarship), *Germany*.
- Awarded €300 per month (~20 scholarship holders at Osnabrück University)

Jan 2016
CodingchaOS, *Germany*.
- Solved four small programming tasks
- Won first prize

Nov 2015
Lower Saxony (university scholarship), *Germany*.
- Awarded €500 by Osnabrück University (~150 awards)

Jun 2013
Max Weber (state scholarship), *Germany*.
- Passed the examination for the scholarship aimed at encouraging academically gifted students to study in Bavaria
- Offered a scholarship, but declined the offer because I decided to study in another state

Computer Skills

Python, C++, C, Java, Scala, Matlab, Prolog, LaTeX

Languages

German (native), English (fluent), Hindi (advanced)