

DAVID YENICELIK

Year of Birth: 1997

Zurich, 8049, CH

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EMPLOYMENT

The AI Company GmbH

Research Engineer and CEO, Co-Founder

Dec. 2017 - Present

Zurich, CH

- Development and implementation of state-of-the-art automatic machine learning and Bayesian optimization algorithms within the chemical industry. Using algorithms that were published within the last year.
- Clients include US-Fortune-500 companies.

Skilllab B.V.

Lead Data Scientist, Co-Founder

May. 2018 - Present

Amsterdam, NL

- Building and deploying a fully end-to-end neural network-based machine learning model for a recommender system to be used for job-matching primarily targeted for refugees. Solutions endorsed by the European Commission as "Best Practices" in labour market integration.
- Clients in the public sector include the city of Amsterdam, state of Finland, European Union.

Swissloop - ETH Hyperloop Team

Co-Founder

Sept. 2016 - May 2017

Zurich, CH

- Built the first Hyperloop of Switzerland at ETH Zurich.
- Creating an interdisciplinary team of students from 5 swiss universities.
- Convince professors to back the project and provide resources, such as an airport hangar, etc.

German Embassy

Student Intern

Feb. 2010

Ankara, TR

- Interned at the five departments including PR, cultural, economic and law

RESEARCH EXPERIENCE

ETH Zurich - Institute for Machine Learning (LAS)

Thesis Work under Prof. Dr. A. Krause (Group for Learning and Adaptive Systems)

Feb. 2018 - Aug. 2018

Zurich, CH

- High-dimensional Bayesian Optimization using random and identifiable subspace embeddings, with application on a free electron laser (electron accelerator). Development of the novel algorithm BORING (Bayesian Optimization using Random and Identifiable subspace Generation).

ETH Zurich - Institute for Machine Learning (BMI)

Research Assistant (group for Bio-Medical Informatics)

Nov. 2017 - March 2018

Zurich, CH

- Fix vs full linear models for cancer research.

ETH Zurich - AIT Lab

Student Research Assistant

Apr. 2017 - Oct. 2017

Zurich, CH

- Deep domain adaptation for neuro-prosthetics using vanilla and multi-stream CNNs.

EDUCATION AND QUALIFICATIONS

MSc ETH Zurich in Computer Science - ETH Zurich	<i>Aug. 2018 - Jan. 2020 (exp.)</i>
Focus on (theoretical) machine learning and mathematics for optimization. Finished most (applied) machine learning courses in the Bachelors.	
BSc ETH Zurich in Computer Science - ETH Zurich	<i>Sept. 2015 - Aug. 2018</i>
Focus in NLP, Probabilistic AI, Advanced ML, Reliable AI. Member of Capture the Flag Team ETH Zurich. Other activities include Judo, Basketball, Boxing.	
IBDP - Munich International School e.V.	<i>Aug. 2014 - May. 2015</i>
IBDP - The Private School of the German Embassy in Ankara	<i>Sep. 2004 - May. 2014</i>
Mid IB Program - Harvard University	<i>July 2014 - Aug. 2014</i>
Pre IB Program - Massachussets Institute of Technology	<i>July 2013 - Aug. 2013</i>

HONORS, GRANTS, AWARDS AND ACCOMPLISHMENTS

Skillab / Winner Google AI Impact Challenge	<i>2019</i>
Amongst top 20 out of 2670 applicants to win grants from a prize-pool of \$25mio.	
Swissloop / Winner SpaceX Hyperloop Competition	<i>2017</i>
Won 3rd place out of 1226 teams at the competition. Swissloop was merged into a core 6-month program of the the B.Sc. in Mechanical Engineering.	
Machine Learning in Drug Development / Roche	<i>2018</i>
Winner of the Roche "Case Challenge on Preclinical Drug Safety Prediction with the TG-GATES database".	
Gruezi / Clinton Global Initiaive	<i>2017</i>
In corporation with ETH Zurich, and SwissneX Boston	
CYBER / Swiss Championship in Cybersecurity	<i>2017</i>
Winner of the Swiss Championship in Cybersecurity (CYBER) competition. Other participants included Roche, UBS, Credit Suisse, Swisscom, etc.	
Found major security vulnerabilites in Swyssbike competition (valuated at \$3bn).	

VOLUNTEERING

Private School of the German Embassy	<i>Sept. 2014 - Aug. 2014</i>
<i>Student Government President</i>	<i>Ankara, TR</i>
· Elected to represent grades 1 to 12, organized events for up to 500 students, delegations of the embassy and the public. Involved in resolving emergency situations between the IB-Organization and students, focusing to provide a warm atmosphere for all students.	
Ankara Golf Club	<i>Sept. 2013 - June 2014</i>
<i>Volunteer Golf Trainer</i>	<i>Ankara, TR</i>
· Training youth members (10-14 years old) from marginalized communities at a young age to play compatetive golf. Aiming to provide sports as a way to overcome socio-economic circumstances.	

ORGANIZED CONFERENCES AND WORKSHOPS

ACM SIGKDD Conference for Knowledge Discovery and Data Mining	<i>2019</i>
Program Committee Member for the KDD 2019 Special Track	

WORKING PAPERS

"Deep Learning for Stock Predictions using Stock Embeddings"	<i>2019</i>
"Optimal model selection using k-bandits and Bayesian optimization for recommender-engines"	<i>2019</i>
"Parameter Optimization using high-dimensional Bayesian Optimization"	<i>2018</i>
"A discriminative and generative approach to the Story Cloze Task"	<i>2018</i>
"Towards inter-session hand-gesture classification"	<i>2017</i>

FURTHER QUALIFICATIONS

Languages	English (Native), German (Native), Turkish (Fluent), French (Rudimentary)
Skillset	Python, Numpy, Tensorflow, Torch, Pytorch, Keras, Ubuntu/Debian, (Lua), Vim, Haskell, Latex, C++, Java, SQL, Assembly (x86, MIPS), R, Github, PHP, MatLab, Javascript
Independent courses	Karpathy, Stanford CS231 - CNNs for Visual Recognition Silver, UCL CompGI13 (Reinforcement Learning) Ng, Coursera (Machine Learning) Winston, MIT 6.034 (Artificial Intelligence) Russel, Artificial Intelligence: A Modern Approach Sutton, RL: An Introduction

INDEPENDENT PROJECTS

Reinforcement Learning: Distributed trading bot	<i>Sept. 2017 - Dec. 2017</i>
Basic automated ML-estimator-chooser (automate future homework)	<i>Oct. 2017</i>
Decentralised betting on the ethereum blockchain (cryptographic oracles)	<i>Sept. 2017</i>
Reinforcement Learning: General Superhuman Atari-playing agent	<i>Jan. 2017 - Mar. 2017</i>
Sutton's RL book, papers by DeepMind, generalizing to multiple games with a single model.	
Sequence to sequence learning: DailyMail text generator	<i>Nov. 2016 - Jan. 2017</i>
Image to Sequence Network: Describing images using natural text	<i>Sept. 2016 - Oct. 2016</i>
Using the self-built neural network framework mentioned below	
Building a neural network framework from scratch using numpy	<i>Sept. 2016</i>
Yip - Context-based URL shortener using NLP	<i>Dec. 2015 - Aug. 2016</i>
Collaborative platform for the German Abitur	<i>Jan. 2014 - May. 2015</i>