Andreas Bloch
Machine Learning Specialist
Computer Scientist **ETH** *zürich*

«My passion is to solve challenging problems through the power of cutting-edge machine learning technologies.»

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SHORT PROFILE

Originally, I studied Business Information Technology and then worked as a Software Engineer and IT Consultant. My passion for machine learning then motivated me to take a leap of faith and pursue a further Bachelor in Computer Science at ETHZ where I had the chance to visit several machine learning courses (see list below). Also, my thesis allowed me to intensively study and apply recommender systems for half a year. I recently graduated and so, here I am now, ready and eager to take up my first big job opportunity in the field of machine learning.

EDUCATION

B.Sc. Computer Science – ETH Zürich   [5.46/6.0]

09/2014 – 09/2019

Thesis: Mixed-Curvature Space Representations for Recommender Systems
Specialization: Elective courses in machine learning:

- Deep Learning*
- Data Mining*
- Machine Learning*
- Visual Computing
- Probabilistic Artificial Intelligence*
- Learning and Intelligent Systems
- Building a Robot Judge

* = Master-level courses

B.A.Sc. Business Administration – ZHAW SML   [5.65/6.0]

09/2010 – 09/2013

Thesis: Battery-Efficient Transportation Mode Detection on Mobile Devices
Specialization: Business Information Technology
Honor Award: Best graduation in Business Information Technology

WORK EXPERIENCE

Associate IT Consultant – Orbium

10/2013 – 05/2014   *Zürich & Berlin*

Parametrization of the Avaloq Banking Suite (E-Banking, Output Management) for three major banks in Germany. Requirements engineering in close collaboration with the clients.

Technologies: Avaloq, PL/SQL, XML

Research Assistant – ZHAW

05/2013 – 07/2013   *Winterthur*

Continuation of bachelor thesis: Implementation of a system for transportation mode detection on mobile devices for SBB and Swisscom. Conduction of trainings on Spring framework for the research assistants of the department.

Technologies: Java (Spring, WEKA Machine Learning Library), Android, MySQL

Web Developer – ZHAW & Press Play

09/2012 – 06/2013   *Winterthur*

Integration Seminar: Implementation of the entire website for the event and live voting of the Swiss Music Awards of 2013 in a team of four students. Desktop and mobile client via responsive web design. Conduction of web development trainings for the upcoming students of the following year.

Technologies: PHP (Drupal), JS (jQuery), CSS (LESS), HTML

Junior Software Engineer – Namics

06/2012 – 09/2012   *St. Gallen*

Internship in software engineering: Integration of a rule-engine into the Swissport Lounge Check-in system. Training of client for the recording of rules into the rule-engine.

Technologies: Java (Spring, Hibernate, OpenRules), MySQL, HTML, JS (jQuery)

Specialist Consumer Finance – Credit Suisse

05/2008 – 08/2010   *Horgen*

Customer care for consumer credits in German, French, Italian and English. Opportunity to participate in the testing of new software releases.

SKILLS

Machine Learning · Deep Learning · Data Science · Natural Language Processing · Data Mining · Recommender Systems · Computer Vision · IT Consulting · Software Development

IT SKILLS IN DETAIL

Python
Pytorch, Tensorflow, Keras, Sklearn, Spacy, Numpy, Pandas, Matplotlib

Java
Spring, Hibernate, Android, Maven

C++, C, x86 Assembly
Eigen, OpenCV, OpenMP, MPI, Custom Kernel Modules, IDA, GDB

Matlab

MySQL, PostgreSQL, PL/SQL

Avaloq   (Certified Professional 2013-2015)

Amazon Web Services

Linux, Unix, Windows

PHP, HTML, CSS & JavaScript
Wordpress, Drupal, NodeJS, jQuery, Angular, WebGL

Haskell

PERSONAL PROJECTS

- **Open Source Contribution** of κ-stereographic model to the geometric optimization library geoopt.
- **Machine Learning Blog:** andbloch.github.io
- **Continuous Learning:** Regularly updating machine learning skills through reading of research papers and attending of meetups and online courses.

LANGUAGES

English	*Full Professional Proficiency*
German	*Native Proficiency (Bilingual)*
Italian	*Native Proficiency (Bilingual)*
French	*Full Professional Proficiency*
Portuguese	*Professional Proficiency*

INTERESTS

Kitesurfing · Swimming · Barbecuing · Artificial Intelligence · Technology · Mathematics · Socializing