Andreas Bloch

Machine Learning Enthusiast

Computer Scientist **ETH** zürich

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



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Zürich, Switzerland

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github.com/andbloch 🔘

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 with focus on machine learning. I recently graduated – so, here I am now, ready and eager to take up my first big job opportunity in the field of machine learning.

WORK EXPERIENCE -

Associate IT Consultant - Orbium

10/2013 - 05/2014

Zürich & Berlin

Parametrization of the Avalog 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 Framework, WEKA Machine Learning Library), Android (Spring Mobile), MySQL

Web Developer – ZHAW & Press Play

09/2012 - 06/2013

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), JavaScript (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 Framework, Hibernate, OpenRules), MySQL, HTML, JavaScript (jQuery)

Specialist Consumer Finance – Credit Suisse

05/2008 - 08/2010

Horaen

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

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

SKILLS -

Data Science

Machine Learning Deep Learning

Natural Language Processing Data Mining

Recommender Systems Computer Vision

IT Consulting Software Development

IT SKILLS IN DETAIL -

Pvthon

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

lava

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) Full Professional Proficiency French Portuguese Professional Proficiency

INTERESTS

Kitesurfing

Swimming

Barbecueing

Artificial Intelligence

Technology

Mathematics

Socializing