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About me, summary and motivation

(please find work experience and education on page 2 and 3)

I'm an engineer and programmer with many years of experience in writing python code, designing machine learning pipelines and working with various types of data. As a data scientist i always try to have an open mind and put a lot of effort into getting the high overview and domain knowledge related to the company and problems i'm about to tackle.

Solving a problem or making an important discovery is just one of many steps that have to be taken. I consider communicating the results to drive business decisions or integrating it into a living system as part of my job.

I was always fascinated by images and how much information they carry. I worked with images coming from cameras, medical devices, thermal cameras, kinect and others. In my current job i build deep learning solutions to detect / segment clothing parts from real-world images.

One of the most important reasons i decided to stick to Data Science as my career choice is that it values versatility of skills and knowledge. From writing bash scripts to reading deep learning research papers or from analyzing tabular customer data to data coming from high tech devices like MRI or LIBS.

If i'm not coding or working i'm probably planning my next windsurfing trip and wonder how come we still don't have good wind prediction solutions. From time to time i also like to reuse my assets by bringing analytical skills to a poker table.

Skills

Programming Languages:

- Python (+5 years)
- Matlab (+2 years)
- javascript (basic)

Foreign Languages:

- English, fluent
- German, fluent
- Polish, native

Technology:

- Python data science stack (pandas, numpy, scikit-learn, etc)
- Object Detection
- deep learning (pytorch, tensorflow)
- web developement (Flask)
- docker
- Jenkins
- Hadoop (spark)
- AWS, cloud computing, AWS lambda
- ELK stack
- Linux (automation and administration)
- API and web development

Work Experience

Senior Data Scientist Jun 2017 - Present

New Yorker Group Services International GmbH & Co. KG, Berlin

At New Yorker I worked on two projects:

- 1) Fashion Trends: building a deep learning fashion detector (a pipeline designed to classify and detect clothing parts on instagram images)*
- 2) Markdown Optimization: Predicting future Sales in order to optimize pricing strategies.*

Deep Learning Teacher Mai 2018 - Present

Data Science Retreat <https://datasciencetretreat.com>

DSR is one of the biggest and most prestigious data science schools in europe i teach two courses:

- Introduction to Deep Learning with Pytorch*
- Deep Learning for Computer Vision*

Data Scientist Dec 2017 - Present

AiScope <https://aiscope.net/>

AiScope is an open source initiative to build a cheap device (hardware + software) to diagnose common diseases like malaria.

I was responsible to write software to detect malaria parasites in thick-blood samples

Data Scientist Oct 2015 - Present

CrossLend GmbH (fintech), Berlin

At CrossLend i'm part of the credit risk and scoring team.

Besides working on credit scoring and new ways to prevent fraud i am responsible for bringing solutions to production by implementing an internal data science microservice that is consumed by the rest of the platform.

Data Science Consultant Aug 2016 - Present (Part Time).

LTB Lasertechnik Berlin GmbH (R&D)

LTB uses Laser-induced breakdown spectroscopy to quantify and classify materials, my job is to analyze acquired data (images, spectrograms) and finding optimal Machine Learning pipelines to make their systems more accurate and robust.

Data Scientist / Python developer Oct 2014 - Dec 2015

Medlanes GmbH (telehealth), Berlin

Development of a "Learning Medical Reasoning Engine" responsible for making preliminary diagnoses based on user symptomatic input.

Internship (R&D) Aug - Oct 2013

Fiagon GmbH (medical devices), Berlin

I programmed microcontrollers (C, Basic) used in automated device testing.

Internship (R&D) Mar - Jun 2011

Institute of Nuclear Physics, Cracow, Poland

I wrote software to analyze MRI images, specifically algorithms to detect the left ventricle and quantify heart performance

Relevant coursework

Convolutional Neural Networks

certificate: <https://www.coursera.org/account/accomplishments/verify/4UK723BQ727D>

Neural Networks and Deep Learning

certificate: <https://www.coursera.org/account/accomplishments/verify/YWAB222K955B>

PyimageSearch Gurus Mar 2016 - Feb 2017

<https://goo.gl/7W9xLB>

Extensive 6 months+ course covering computer vision, machine learning, deep learning topics applicable in real world machine vision problems.

Fundamentals of AWS Oct 2016

url: <https://www.credential.net/10381789>

Education

Wroclaw University of Technology, Faculty of Fundamental Problems of Technology, 2012-2014

Master's degree in Biomedical Engineering / Digital Signal Processing

Thesis: "Predictive analytics of EEG microstates in patients with unipolar and bipolar affective disorder"

Cracow University of Technology, Faculty of Mechanical Engineering, 2008 - 2012

Bachelor's degree Biomedical Engineering

Thesis: "Thermal imaging as a lie detection tool"