

Jannik Gut

30 June, 1996

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github.com/rostro36

https://rostro36.github.io/

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Languages

English

French

German

Programming

sh Bash

C. C

Google Apps Script

py Python sql SQL

Tools

Azure

Command Line

Markdown git

Google Suite

Linux

git



Hobbies

Computers Cycling Godfather of a 9 year old Jogging Reading the newspaper

Previous Career

2020 - 2021 **Master Computer Science**

Master thesis about disease representations in administrative claims

2019 - 2020 **Data Analyst Intern** F. Hoffmann-La Roche

Worked on the Competitive Intelligence project for Talent Acquisition,

as part of the IT for HR department.

2015 - 2019**Bachelor Computer Science** ETH Zürich

Python

BERT

Hadoop

PyTorch

Python

Python

ETH Zürich

Thesis about the security of the transmission of ballot voting results.

2011 - 2015 Matura Kantonsschule Sursee Matriculation project about the difference of news during the Crimea

crisis between the Ukrainian side and the Russian side.

Academical projects

Advanced Machine Learning

The lecture "Advanced Machine Learning" gives some tasks to solve, where my team always beat the hardest baseline. The first task were about data pre-processing, which we solved with sklearn, the second about class imbalance where imblearn was used and the last one about ECG data where BioSPPy and NeuroKit2 helped.

Baum-Welch

As a project in the course "Advanced Systems Lab" my team С had to build a fast implementation of the Baum-Welch algorithm for solving Hidden Markov Models in C, benchmark it and we

also provided valgrind output.

Intelligence Lab

Computational The course "Computational Intelligence Lab" demanded a project for which my team chose the Twitter classification task, where we employed BERT and ALBERT and tested the

effect of lexical normalization with MoNoise.

Big Data The lecture Big Data was a great lecture with many

hands-on exercises for Hadoop, HDFS, MongoDB, Azure, Spark, MapReduce, XML, JSON and many more. I made

many notes and saved them in this repo.

Master thesis My Master thesis in the Medical Data Science Group tried

to find the influence of hierarchical information and co-occurrence information in administrative claim patient data. For this project euclidean and hyperbolic machine learning was used with PyTorch as well as graph neural

networks with PyTorch geometric.

Machine Learning for **Health Care**

For the homework of the "Machine Learning for Health Care" course I employed Tensorflow Keras in the first project about transferal

learning of ECG data, different sklearn functions for the second NLP problem and again Tensorflow Keras in the

last MRI segmentation problem.

Partisan Responses For the GESS subject "Sequencing Legal DNA" my team used open information extraction after pre-processing with spaCy the U.S. congressional record to form small knowledge graphs and then use GraphWriter to generate responses to questions. As a benchmark GPT-2 answers

were also used.



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Professional projects

Competitive Intelligence

This project uses AWS EC2 and RDS (MySQL) instances to crawl and store talent acquisition data, afterwards use machine learning to categorize data and in the end use Tableau to present a dashboard. Some of the auxiliary functions have been automated with Google Apps Script (JavaScript-dialect). This project also required me to work GAS

GAS

Splunk

Markdown

Python

Python

PhD Student

with non-technical clients.

ERP RPA

Splunk

With the help of Google Apps Script I programmed a tool to Specification create specifications for Workday integrations, which also

simplified the automation of the impact assessment.

The ERP software Workday needed a new monitoring

solution, for which I helped integrating Splunk.

Leisure projects

Books/Webinars

Clean Code - Agile Software Craftsmanship Robert C. Martin Docker Mastery: The Complete Toolset **Bret Fisher** Python Testing with pytest Brian Okken Splunk Fundamentals 1 Splunk

GitHub

<u>Notes</u> In this repo are notes on interesting NLP and

knowledge graph papers as well as lecture notes of

"Advanced Machine Learning" and "Big Data".

Scrapes the search of the Neue Luzerner Zeitung for a NLZMarkov

search term and makes a Markov chain out them. There

are options for part of speech tagging and a Qt-Gui.

Scrapes the official placements of Tour de France or Vuelta TdFGraph Python

a España stages or from a fan page and displays the

results with matplotlib.

TLSCheck Scrapes Wikipedia for Swiss municipality websites, checks

the websites for TLS and displays the results with

matplotlib.

References

Thomas Sutter (thomas.sutter@inf.ethz.ch) Thesis

Supervisor

Project Jingshu Sun (jingshu.sun@roche.com) Data Scientist

Leader

Business Manuel Zumkeller El-Manchi **Business Partner**

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