

# PATRICK MICHL

Data Scientist | Al Researcher | Mathematician



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**EXPERIENCE** 



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**Legal** POB/Date-: 93309 Kelheim, DE at 05/19/1982

Nationality: German Marital status: Married

Online Professional profile: LinkedIn

Research profile: ORCid | Heidelberg University
Certificates: Credly | Scrum.org | NVIDIA | Coursera

Software engineering: <u>GitHub | PyPI</u> Blog/Talks: <u>Frootlab | SlideShare</u>



I spent the most part of my professional and educational lifetime by shaping my experience and expertise in AI, machine learning, software engineering and network technologies. During this process I gained domain specific insights into different industries comprising manufacturing (engineering, shop floor and office), finance (office, sales), pharma (research) as well as the public sector. I identify myself as a passionate mathematician, obsessive software engineer and convinced AI enthusiast.



## Ruprecht-Karls-Universität

Heidelberg, 2006-2018

Mathematics Diploma: Grade 1.4 / GPA 3.6, with specialization in statistics, machine learning and differential geometry. Subsidiary subjects: Theoretical physics, applied computer science and systems biology. Fundamental research in machine learning and systems biology with honored thesis *Principal Manifold based Correlation Analysis* 

## Ostbayerische Technische Hochschule

Regensburg, 2003-2006

Applied mathematics with specialization in graph theory, optimization and operations-research. Subsidiary subjects: Relational database design, software engineering and econometrics. Internship semester: Conception and implementation of a graph-based optimization <a href="mailto:algorithm"><u>algorithm</u></a> for automated multi-service machine translation



German: Native | English: Fluent | French: Basic | Irish: Basic

# amprela DIGITAL GmbH, Senior Data Scientist

Mannheim, 06/2021-01/2022

Process mining-, enterprise data modeling- and digitalization projects from planning and conception to project coordination (*agile*), product management, architecture design (*microservice*) and DevOps (*hybrid cloud*, *Kubernetes*)

#### reboot GmbH, Data Scientist

Mannheim, 02/2020-05/2021

Al driven shopfloor- and QA automation, business analytics, DB development and digitalization projects, predictive analytics and -maintenance, RPA

## **Freelance Data Scientist**

Heidelberg, 03/2018-01/2020

Consulting in enterprise data warehousing and -data modeling, data analysisand digitalization projects in the Rhine-Neckar metropolitan area

## Frootlab Smart Analytics, Founder

Heidelberg, 05/2016-present

Entrepreneurship, product management and architecture design for federated cloud infrastructure and  $\frac{1}{1}$  for collaborative data analysis

# **DKFZ**, Research Assistant

Heidelberg, 12/2012-01/2014

Research in deep-learning based gene expression and -regulation analysis applied to breast cancer and GBM at *network modeling* research group

#### Ruprecht-Karls-Universität

06/2008–02/2014, Institute for Mathematics, Systemadministrator: Unix- and DB administration, network engineering, DB reliability engineering, helpdesk

05/2012–07/2012, Institute for Molecular Biotechnology, Student Research Assistant: Deep-learning-based gene expression data analysis

10/2008–03/2009, Institute for Computer Sciences, Lecture Assistant: Tutorship in applied computer science at *software engineering* research group

## **Eckert Schulen, Freelance Technical Writer**

Regenstauf, 10/2011-09/2012

Authoring of the textbook: Netzwerktechnik, NET(TE)1, ArtNr. 02303, for the vocational education of IT- and electrical engineers in Germany



Statistics | Machine Learning | Al | Statistical Dev (*Python, Julia, SAS, R*) Predictive Analytics | Process Mining | Network Analysis | Anomaly Detection Business Intelligence | Data Visualization and Presentation | Reporting Product Management | IT-Project Management | Agile Coaching (*Scrum*) DB (*SQL, noSQL*) | DevOps (*Git, Docker, Kubernetes, OpenShift, Cl/CD*) Web Dev (*TypeScript, Angular, Go, PHP*) | Systems Dev (*Rust, C/C++, CAPL*)

