

Patrick Michl

Senior Data Scientist | Al Engineer | Mathematician





PERSONAL

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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

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

Certificates: Credly | Coursera | Scrum.org



ABOUT

I spent the most part of my professional and educational lifetime by shaping my experience and expertise in AI, machine learning, software development and network technologies. During this process I gained domain specific insights into different industries comprising manufacturing (engineering, shop floor and office), finance (office, sales) and pharma (research). I identify myself as a passionate mathematician, obsessive software developer 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 sciences and systems biology. Fundamental research in machine learning and systems biology with honored diploma 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 management, software development and economics. Internship semester: Development and implementation of the graph-based optimization algorithm and software *PolyTran* for automated machine translation.



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



amprela DIGITAL GmbH, Senior Data Scientist

Mannheim, 05/2021-01/2022

Process mining, enterprise data modeling- and digitalization projects from planning and conception to project coordination (*agile*), architecture design (*microservice*), development and operation (*cloud*, *on-premises*)

reboot GmbH, Data Scientist

Mannheim, 03/2020-04/2021

Al driven shop floor automation, business analytics, DB development- and digitalization projects, predictive analytics and -maintenance, RPA

Freelance Data Scientist

Heidelberg, 03/2018-02/2020

Consulting in enterprise data warehousing, (hybrid-, multi-) cloud, data analysis and digitalization projects in the Rhine-Neckar metropolitan area

Frootlab Smart Analytics, Founder

Heidelberg, 05/2016-present

Founder, software architect and consultant for the next generation low code software framework Vivid Code for automated collaborative data analysis

DKFZ, Research Assistant

Heidelberg, 12/2012-01/2014

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

Ruprecht-Karls-Universität

06/2008-02/2014, Institute for Mathematics, Systemadministrator: Unix administration, DB administration, Network services and security

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

10/2008–03/2009, Institute for Computer Sciences, Lecture Assistant: Applied CS and software development 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



Machine Learning | Statistics | Al | Data Visualization and Presentation Statistical Programming (*Python, SAS, R, Matlab*) | Business Analytics Product Management | IT-Project Management (*Scrum*) | Agile Coaching Predictive Analytics | Process Mining | Network Engineering & -Security DB Dev (*SQL, noSQL, UML*) | Cloud Dev (*Docker, Kubernetes, Azure, Spark*) Web Dev (*TypeScript, Angular, PHP, REST*) | Hardware Dev (*C/C++, CAPL*)