Patrick Michl

Senior Data Scientist | AI 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: GitHub | PyPI
Blog/Talks: Frootlab | SlideShare
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 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.

EDUCATION

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 algorithm for automated multi-service machine translation

LANGUAGES

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

EXPERIENCE

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*), product management, architecture design (*microservice*) and DevOps (*hybrid cloud*, *Kubernetes*)

reboot GmbH, Data Scientist
Mannheim, 02/2020–04/2021

AI 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 analysis- and 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 framework 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

SKILLS

Machine Learning | Statistics | Statistical Dev (*Python*, *SAS*, *R*, *Matlab*) | AI
Business Analytics | Data Visualization and Presentation | Reporting
Product Management | IT-Project Management | Agile Coaching (*Scrum*)
Predictive Analytics | Process Mining | Network Engineering & -Security
DB (*SQL*, *noSQL*) | DevOps (*Git*, *Docker*, *Kubernetes*, *OpenShift*, *CI/CD*)
Web Dev (*TypeScript, Angular, Go, PHP*) | Hardware Dev (*C/C++, CAPL*)