# Patrick Michl

## Data Scientist | AI Engineer

## PERSONAL

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**Legal**  POB/Date-: 93309 Kelheim, DE at 05/19/1982
Nationality: German
Marital status: Single

**Online**  Professional profile: LinkedIn ☐
Research profile: ORCid ☐ | Heidelberg University ☐
Software development: GitHub ☐
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 development and network technologies. During this process I gained domain specific insights into different industries comprising manufacturing (engineering, shop floor and office) as well as finance and pharma (research). I identify myself as a passionate mathematician, obsessive software developer and convinced AI enthusiast.

## EDUCATION

### Ruprecht-Karls-University ☐
*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. Research in 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 subject: Economics. Internship Semester: Development and implementation of a graph-based optimization algorithm for multiple source machine translation ☐

## LANGUAGES

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

## EXPERIENCE

### reboot Consulting ☐
*Mannheim,* 03/2020 - *Present*

Data Scientist: AI driven shop floor automation, business analytics, database development, predictive maintenance, robotic process automation, IT project management, digitalization projects

### Freelancer ☐
*Heidelberg,* 03/2018 - 02/2020

Freelance Data Scientist: Data Warehousing and cloud computing projects in the Rhine-Neckar metropolitan region. Remote planning and implementation of data analysis- and digitalization projects

### Frootlab Smart Analytics ☐
*Heidelberg,* 05/2016 - *Present*

Founder, software architect and consultant for data science collaboration projects between industry-, public sector- and academic teams, using the "Vivid Code" cloud collaboration framework ☐

### Ruprecht-Karls-University ☐

06/2008 - 02/2014*, Institute for Mathematics* ☐
Systemadministrator: Unix-Administration and network programming

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

10/2008 - 03/2009*, Institute for Computer Sciences* ☐
Lecture Assistant: Applied CS at software engineering research group

### National Cancer Research Center ☐
*Heidelberg,* 12/2012 - 01/2014

Research Assistant: Research in deep-learning-based gene regulation analysis with application to breast cancer and glioblastoma multiforme at network modeling research group

### National Chamber of Commerce and Industry ☐
*Regenstauf,* 10/2011 - 09/2012

Freelance Technical Writer: Authoring of the textbook "*Network Technology Fundamentals*" as part of the vocational education program of electrical engineers in Germany

## SKILLS

Machine Learning | Statistics | AI | Data Visualization and Presentation
Process Mining | Predictive Maintenance | Network Technologies
Business Analytics | Statistical Programming (Python, R, SAS, Octave)
Database Programming and -Design (SQL, noSQL, VFP, VBA, UML)
Web & Cloud (PHP, JS, REST, Azure, IBM-Cloud, Snowflake, Spark)
IT Project Management (Classic, Scrum) | Hardware Programming
(C/C++, CANoe, CAPL, SPS) | Administration (Linux, Microsoft 365)