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| [click or scan](https://linktr.ee/patrick.michl)  Senior Data Scientist | AI Engineer | Mathematician  Patrick Michl |

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| |  |  | | --- | --- | | **Personal** | | | **Contact** | Floringasse 5, 69117 Heidelberg, DE Phone: +49 177 85 44 151 E-Mail: [patrick.michl@gmail.com](mailto:patrick.michl@gmail.com) | | **Legal** | POB/Date-: 93309 Kelheim, DE at 05/19/1982 Nationality: German Marital status: Married | | **Online** | Professional profile: [LinkedIn](https://www.linkedin.com/in/patrick-michl/) Research profile: [ORCid](https://orcid.org/0000-0002-6398-0654) | [Heidelberg University](https://www.mathi.uni-heidelberg.de/people/personeninfo.html?uid=pmichl) Certificates: [Credly](https://www.credly.com/users/patrick-michl) | [Scrum.org](https://www.scrum.org/user/762608) | [NVIDIA](https://courses.nvidia.com/in/patrick-michl) | [Coursera](https://www.coursera.org/user/603b3c2b92a6b2a3b8aa83668b9018c6) Software engineering: [GitHub](https://github.com/fishroot) | [PyPI](https://pypi.org/user/fishroot) Blog/Talks: [Frootlab](https://www.frootlab.org/authors/patrick.html) | [SlideShare](https://de.slideshare.net/PatrickMichl1/presentations) | | **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**](https://www.uni-heidelberg.de/en) Heidelberg, 2006–2018   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | |  | | --- | |  | |  | | |  | | |  |  | | --- | --- | | Green | Please consider your environmental responsibility. Before printing this e-mail message, ask yourself whether you really need a hard copy. | | |   Mathematics Diploma: Grade 1.4 / GPA 3.6, with specialization in statis-tics, machine learning and differential geometry. Subsidiary subjects: Theoretical physics, applied computer science and systems biology. Fundamental [research](https://arxiv.org/search/math?searchtype=author&query=Michl%2C+P) in machine learning and systems biology with hono-red [thesis](https://raw.githubusercontent.com/fishroot/resume/master/publications/thesis/Principal%20Manifold%20based%20Correlation%20Analysis%20(2017).pdf)*Principal Manifold based Correlation Analysis*  [**Ostbayerische Technische Hochschule**](https://www.oth-regensburg.de/en.html) 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](https://github.com/fishroot/polytran) for automated multi-service machine translation | | | **Languages** | | | **German**: Native | **English**: Fluent | **French**: Basic | **Irish**: Basic | | | |  | | --- | | **Experience** | | [**amprela DIGITAL GmbH**](https://amprela.de)**, 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**](https://www.reboot.de)**, Data Scientist** Mannheim, 02/2020–05/2021  AI driven shopfloor- and QA automation, business analytics, DB development and digitalization projects, predictive analytics and -maintenance, RPA  [**Freelance Data Scientist**](https://linkedin.com/company/freelancer-patrick-michl) 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**](https://www.frootlab.org/)**, Founder** Heidelberg, 05/2016–present  Entrepreneurship, product management and architecture design for federated cloud infrastructure and [framework](https://www.frootlab.org/projects/vivid) for collaborative data analysis  [**DKFZ**](https://www.dkfz.de/en)**, 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**](https://www.uni-heidelberg.de/en)  06/2008–02/2014, [Institute for Mathematics](https://www.mathi.uni-heidelberg.de/~pmichl), Systemadministrator: Unix- and DB administration, network engineering, DB reliability engineering, helpdesk  05/2012–07/2012, [Institute for Molecular Biotechnology](https://www.ipmb.uni-heidelberg.de/index_en.html), Student Research Assistant: Deep-learning-based gene expression data analysis  10/2008–03/2009, [Institute for Computer Sciences](https://www.ifi.uni-heidelberg.de/), Lecture Assistant: Tutor-ship in applied computer science at *software engineering* research group  [**Eckert Schulen**](https://www.eckert-schulen.de)**, Freelance Technical Writer** Regenstauf, 10/2011–09/2012  Authoring of the [textbook](https://bit.ly/3H3E3IW): *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*) | Systems Dev (*Rust*, *C/C++, CAPL*) | |

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