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| 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 Email: [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) Software development: [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) Certificates: [Credly](https://www.credly.com/users/patrick-michl) | [Coursera](https://www.coursera.org/user/603b3c2b92a6b2a3b8aa83668b9018c6) | [Scrum.org](https://www.scrum.org/user/762608) | | **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.* | | | **Education** | | | **[Ruprecht-Karls-Universität](https://www.uni-heidelberg.de/en)**Heidelberg, 2006–2018  Mathematics Diploma: Grade 1.4 / GPA 3.6, with specialization in sta-tistics, machine learning and differential geometry. Subsidiary subjects: Theoretical physics, applied computer sciences and systems biology. Fundamental [research](https://arxiv.org/search/math?searchtype=author&query=Michl%2C+P) in machine learning and systems biology with honored [diploma thesis](https://t.ly/1pwj):*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 manage-ment, software development and economics. Internship semester: Development and implementation of the graph-based optimization [algorithm and software](https://github.com/fishroot/PolyTran) *PolyTran* for automated machine translation. | | | **Languages** | | | **German**: Native | **English**: Fluent | **French**: Basic | **Irish**: Basic | | | |  | | --- | | **Experience** | | **[amprela DIGITAL GmbH](https://amprela.de), Senior Data Scientist** Mannheim, 05/2021–01/2022  Process mining, enterprise data modeling- and digitalization projects from inception to agile project management, implementation and operation  **[reboot GmbH](https://www.reboot.de), Data Scientist** Mannheim, 03/2020–04/2021  AI driven shop floor automation, business analytics, database development and digitalization projects comprising predictive analytics and RPA  **[Freelance Data Scientist](https://linkedin.com/company/freelancer-patrick-michl)** 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](https://www.frootlab.org/), Founder** Heidelberg, 05/2016–present  Founder, software architect and consultant for the next generation low code [software framework](https://www.frootlab.org/projects/vivid) *Vivid Code* for automated collaborative data analysis  **[DKFZ](https://www.dkfz.de/), 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](https://www.uni-heidelberg.de/en)**  06/2008–02/2014, [Institute for Mathematics](https://www.mathi.uni-heidelberg.de/~pmichl), Systemadministrator: Unix administration, DB administration, Network services and security  05/2012–07/2012, [Institute for Molecular Biotechnology](https://www.ipmb.uni-heidelberg.de/index_en.html), 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: Applied CS and software development at *software engineering research group*  [**Eckert Schulen**](https://www.eckert-schulen.de)**, 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 | AI | 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*) | |