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| Patrick Michl  Data Scientist | AI Engineer | Mathematician |

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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) 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](https://www.uni-heidelberg.de/en) *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 sys-tems biology. Research in systems biology with honored diploma thesis:*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 subject: Economics. Internship Semester: Development and implementation of a graph-based opti-mization algorithm for [multiple source machine translation ](https://github.com/fishroot/PolyTran) | | | **Languages** | | | **German**: Native | **English**: Fluent | **French**: Basic | **Irish**: Basic | | | |  | | --- | | **Experience** | | [amprela GmbH, Senior Data Scientist](https://amprela.de/)*Mannheim,* 05/2021 - present  …  [reboot GmbH, Data Scientist](https://www.reboot.de/)*Mannheim,* 03/2020 -06/2021  AI driven shop floor automation, business analytics, database development, predictive maintenance, robotic process automation, IT project management, digitalization projects  [Freelance Data Scientist](https://www.linkedin.com/company/42159207) *Heidelberg,* 03/2018 - 02/2020  Consulting in data warehousing, cloud computing, data analysis- and digitalization projects in the Rhine-Neckar metropolitan area.  [Frootlab Smart Analytics, Founder](https://www.frootlab.org/) *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 ](https://www.frootlab.org/projects/vivid/)  [Ruprecht-Karls-University ](https://www.uni-heidelberg.de/en)  06/2008 - 02/2014*,* [*Institute for Mathematics,* ](https://www.mathi.uni-heidelberg.de/~pmichl)Systemadministrator: Unix-Administration and network programming  05/2012 - 07/2012*,* [*Institute for Molecular Biotechnology,* ](https://www.ipmb.uni-heidelberg.de/index_en.html)Research Assistant: Deep learning based gene expression analysis  10/2008 - 03/2009*,* [*Institute for Computer Sciences,* ](https://www.ifi.uni-heidelberg.de/)Lecture Assistant: Applied CS at software engineering research group  [Research Assistant: Nat. Cancer Research Center](https://www.dkfz.de/) *Heidelberg,* 12/2012 - 01/2014  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 ](https://www.ihk.de/) *Regenstauf,* 10/2011 - 09/2012  Freelance Technical Writer: Authoring of “*Network Technology Fundamentals*” for the vocational education of electrical engineers. | | **Skills** | | Machine Learning | Statistics | AI | Data Visualization and Presentation Statistical Programming (Python, R, SAS, Octave) | Business Analytics Predictive Maintenance | Process Mining | Network Technology DB Dev (SQL, noSQL) | Cloud Dev (Kubernetes, Azure, Spark) Web Dev (TypeScript, Angular, PHP; REST) | Administration (Debian) IT Project Management (Scrum) | |