Mario Peutler

Senior Data Scientist

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Experience

March 2021–Present

Senior Data Scientist, *Continental*, Regensburg, Germany, Full-time
- Developed from scratch a robust deep learning platform leveraging PyTorch and FastAI, enhancing our manufacturing precision and efficiency.
- Employed advanced active and semi-supervised learning methodologies, coupled with meticulous data cleaning practices, to ensure our models are trained effectively on noisy datasets.
- Engineered a serverless backend architecture using AWS technologies (Lambda, API Gateway, SageMaker, Docker, and S3), streamlining operations and reducing costs.
- Mastered the deployment of inference and edge solutions using AWS (ECS, ECR, Step-Functions, DynamoDB), ensuring real-time processing capabilities in-line with production.
- Established monitoring for our deep learning systems, ensuring flawless integration and performance.
- Empowered plant teams to adopt our solution, providing essential training and support.
- Successfully advocated for the adoption of our automated component classification system to management and quality departments, highlighting its benefits and securing crucial approvals.
- Directly engaged with customers and internal quality departments, demonstrating the value and efficiency of our solution to facilitate its acceptance and integration.
- Collaborated with suppliers to define technical specifications for API integration, ensuring seamless communication and operational efficiency across the supply chain.
- Managed and analyzed billions of production images and over 100 TB of data, tackling complex data environments.

Mar 2018–Feb 2021

Data Scientist / Analyst, *Continental*, Regensburg, Germany, Full-time
- Developed and evaluated Big Data and AI methods and tools.
- Worked on computer vision, time series analysis, and feature ranking.
- Managed serverless backend with AWS.
- Led Big Data projects globally.

Oct 2016–Feb 2018

Big Data Analyst, *Continental*, Regensburg, Germany, Full-time
- Technology trend scouting.
- Consulting and support services for the Continental IT community and for the business partners considering the main aspects like Advanced Analytics, Machine Learning, Artificial Intelligence and Data Preparation.
- development of prototypes in order to market the feasibility and functionality of the concepts.

Sep 2013–Sep 2016	**Software Developer**, *Continental*, Regensburg, Germany, Working-student ○ Technology trend scouting. ○ Consulting and support services for the Continental IT community and for the business partners considering the main aspects like Advanced Analytics, Machine Learning, Artificial Intelligence and Data Preparation. ○ development of prototypes in order to market the feasibility and functionality of the concepts.

Education

2014–2016	**Master of Science in Applied Mathematics**, *Universität Regensburg*, Regensburg, Germany
2011–2014	**Bachelor of Science in Mathematics**, *Universität Regensburg*, Regensburg, Germany

Skills

Programming Languages	Python, JavaScript, node.js
Technologies	AWS Lambda, API Gateway, S3, SageMaker, ECR, ECS, CloudFormation, Docker, StepFunctions, DynamoDB, MongoDB, Jenkins, FastAPI, Git, Serverless, Splunk
Libraries	PyTorch, FastAI, Scikit-Learn, pandas

Languages

German	Native
English	Fluent
French	Intermediate
Italian	Basic

Volunteer Experience

2009–2016	**Swimming Coach**, *DLRG Jugend Regensburg* Trained youth in lifesaving swimming skills.

Hobbies

○ Volleyball ○ Chess