

# Manuel Pasieka

Helping you to get the most out of your data

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As Tech Lead and Data & ML Engineer I am helping companies to make their Data Science Projects a success with strategic technology decisions and effect implementations.

## Skills & Tooling

- **Software Development:** Python, C, R, Matlab, δRust
  - **Data Science:** Deep Learning (Keras, PyTorch), Data Visualization (matplotlib, plotly, Tableau)
  - **Data Engineering:** pyspark, pandas, airflow, Celery, Luigi, PostgreSQL, AWS redshift
  - **Dev/MLOps:** MLFlow, Kubernetes, AWS SageMaker, Terraform
  - **Cloud:** AWS, δAzure
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## Professional Experience

### mySugr GmbH – AI Consultant

03/2023-Present

As an AI Consultant I perform training and give guidance on the use of Large Language Models (i.e. GPT) for internal use cases.

- Training on Large Language Models
- Use case analysis and development
- Feasibility study and PoC design

### Brantner Digital Solutions GmbH – ML Consultant

05/2022

Developing a concept and prototype to extend a machine learning training pipeline to be able to track the datasets that are used for model re/training.

- Building a dataset manifest
- Tracking model retraining with MLFlow
- Visualizing and comparing models based on their model performance

### CARIAD – Tech Lead & Data Engineer

04/2022 – 06/2023

As Tech lead and Senior Data Engineer I am with my team, developing an analytics platform that uses voice analysis to understand the interests and demands of customers when interacting with customer support. Extracting product and brand relevant information to understand their usage and sentiment in customer interactions with the goal to populate a dashboard for business analysts.

- Developing and maintaining a voice analytics pipeline running on AWS
- Developing and maintaining the request backend for a Voicify based mobile voice control application
- Speech to Text transcription based on cloud vendor and custom build solutions
- Topic modeling
- Named Entity and Relation extraction and aggregation
- Building a Tableau based dashboard for business analysts

**Motius GmbH – Tech Lead & Data Engineer****04/2022 – 06/2023**

As Tech lead and Senior Data Engineer I am building with my team a spare part observability platform that Siemens customers use to understand and optimize their spare part supply chain.

- Developing a multi-tenant data ingest pipeline on AWS
- Developing of a micro service architecture
- Optimization and parallelization of spare part usage prediction algorithm

**MOSTLY.AI - Senior Machine Learning Engineer****06/2020 - 04/2022**

Building the world's best synthetic data generation engine that protects the privacy of individuals without sacrificing data quality. As a Senior Machine Learning Engineer, I was responsible in developing new encoding types, improving existing ones and building internal tooling for reproducible model training.

In customer PoC's, I was responsible for providing technical guidance and resolving issues as well as answering product related questions.

For internal and customer satisfaction I was developing training material that focuses on the ML aspects of our product. Junior data scientists I supported with supervision, onboarding, and training.

**Craftworks GmbH - Data Scientist****01/2020 - 04/2020**

Solution focused development of data science projects for customers from various industries.

**Vienna Biocenter Core Facilities - Scientific Software Engineer****06/2012 - 10/2019**

Developing data analysis applications used by neuroscience researchers, like applications to automatically quantify and analyze animal behavior, and software to process and analyze neuronal activity.

- Developing hardware control software for behavior experiments
- Building tooling for data processing and visualization
- Creating network analysis tools for structural and behavioral neural measurements
- Building data analysis pipelines for animal behavior classification

**Universidad Politécnica de Valencia - Research Assistant****09/2011 - 10/2012**

Developing a simulation environment controlled by a stationary replica of a autonomous vehicle.

**Adaptivia GmbH - Embedded System Engineer****06/2007 - 09/2010**

Development of 16-bit low power SoC embedded system devices for wireless underground sensor networks.

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**Certifications**

- AWS Certified Cloud Practitioner certification: [Verification Link](#)
- Certified Kubernetes Application Developer: Coming soon

**Publications**

- Pliota, P., Böhm, V., Grössl, F., Griessner, J., Valenti, O., Kraitsy, K., Kaczanowska, J., **Pasieka, M.**, Lendl, T., Deussing, J. M. and Haubensak, W. (2018) 'Stress peptides sensitize fear circuitry to promote passive coping', *Molecular Psychiatry*.
- Dr. Johannes Griessner, **Manuel Pasieka**, Mr. Vincent Boehm, Mr. Florian Grössl, Mrs. Joanna Kaczanowska, Dr. Pinelopi Pliota, Mr. Dominic Kargl, Ms. Barbara Werner, Dr. Nadia Kaouane, Ms.

Sandra Strobelt , Dr. Silke Kreitz , Prof. Andreas Hess and Haubensak, W. (2018) 'Central amygdala circuit dynamics underlying the benzodiazepine anxiolytic effect', *Molecular Psychiatry*.

## **Education**

- Master in Artificial Intelligence, 2018-2019, Universidad Internacional de La Rioja, Spain
- Master in Parallel and Distributed Computing, 2010-2012, Universidad Politécnica de Valencia, Spain
- Bachelor's in Computer Science, 2005-2009, Technical University of Vienna, Austria