

# Manuel Pasieka

Helping you to get the most out of your data

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After more than a decade of working as a Software Developer, Data Scientist and Machine Learning engineer I am now, helping companies as a contractor to build data products and services with system architecture, engineer mentoring and implementation.

## Skills & Tooling

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

### Brantner Digital Solutions GmbH – Data Lineage and Model Tracking

06/2022 - Present

I am responsible for extending an existing ML Training Pipeline to track training data and enable automatic model deployment for continuous model retraining.

- Building a training data manifest
- Tracking model retraining with MLFlow
- Modifying CI/CD pipelines for automatic model selection based on model performance

### CARIAD - AI & ML Consultant

04/2022 - Present

As a contractor I in a small team, I am taking the lead in developing a customer analytics platform to analyze customer service calls. 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
- 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 - Senior Data Engineer

04/2022 - Present

As a contractor I am responsible for developing and improving the data processing pipeline of a spare part management system for large scale factories.

- Developing a multi-tenant data ingest pipeline
- 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