**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

**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 mode 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.

**Certifications**

* AWS Certified Cloud Practitioner certification: [Verification Link](https://www.credly.com/badges/a59e3f2e-8329-4c20-be13-f8e33f4a6d9c)
* 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’, *MolecularPsychiatry*.
* 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', *MolecularPsychiatry*.

**Education**

* Master in Artificial Intelligence, 2018-2019, Universidad International 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