**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

**Professional Experience**

**mySugr GmbH – AI Consultant 03/2023-Present**

As an AI Consultant I perform training and develop with the customer use cases of Large Language Models (i.e. GPT) for internal process automation.

* Employee training on fundamental concepts of Large Language Models
* Development of LLM use case for process automation
* 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 an cloud focused system architecture to enable the deployment of a django based backend on AWS spot instances.
* Rearchitecting the data processing backend to increase system reliability.
* Developing a multi-tenant data processing solution that enables scale to zero
* Extending data models and optimizing database access performance

**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