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, ΔRust
- **Data Science:** Deep Learning (Keras, PyTorch), Data Visualization (matplotlib, seaborn, Tableau)
- **Data Engineering:** pyspark, pandas, airflow, Celery, Luigi, PostgreSQL, AWS redshift
- **Dev/MLOps:** MLFlow, Kubernetes, AWS SageMaker, Terraform
- **Cloud:** AWS, ΔAzure

Professional Experience

Brantner Digital Solutions GmbH – Data Lineage and Model Tracking   **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 - AI & ML Consultant   **04/2022 - Present**

As a contractor as part of a small team, I am taking the lead in developing a customer analytics platform to analyze customer service calls on AWS. 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.
In a parallel project I am improving and maintaining the Azure backend of a customer facing voice control system based on voicify.

- 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 - 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

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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](#)
- 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

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