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

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 customer needs and opinions.

- Developing and maintaining a voice analytics pipeline
- Speech to Text transcription based on cloud vendor and custom build solutions
- Topic modeling
- Information extraction and aggregation
- Building a Tableau based dashboard for data exploration

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.

- Researching and developing product improvements
- Customer support and training during PoC's
- Development of internal tools for dataset management and experiment automatization
- Training and supervision of junior data scientists

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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. In particular, 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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