Manuel Pasieka

Software Development & Data Science & Practical ML

Let's apply the power of Machine Learning to build great products and services for a better future!

Vienna, Austria

25 June 1984

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Skills & Tech

Languages

German (Native), English (Fluent), Spanish (Intermediate)

Software Development

Python, R, Matlab, C (C#, CPP)

Machine Learning

Tensorflow, PyTorch, scikit-learn

Data Science

numpy, scipy, pandas matplotlib, seaborn, plotly

Platforms & Technologies

Spark, Docker, Kubernetes AWS

Freelancing

2022 - present: Machine Learning Engineer
I help companies to leverage the power of Machine Learning for their Business.

Projects

2021 - present: Austrian Ai Podcast
I interview experts and professionals in the in the area of Machine Learning and Artficial Intelligence to discover and highlight the excelent work done in Austria.

Work Experience

2020 - present: Senior Machine Learning Engineer at MOSTLY.AI

Building the worlds best synthetic data generation engine that protects the privacy of invididuals 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
- Tensorflow/Keras, pySpark, Docker, AWS

2020: Data Scientist at Craftworks GmbH

Solution focused development of data science projects for customers from various industries.
- TensorFlow, Spark, Plotly

2012-2019: Scientific Software Engineer at Vienna Biocenter Core Facilities

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
- Python, Matlab, R, matplotlib, seaborn numpy, pandas, scipy, scikit-learn

2011-2012: Research Assistent at Universidad Politécnica de Valencia

Developing a simulation environment controlled by a stationary replica of a autonomous vehicle.
- Python, C, ROS

2007-2010: Embedded System Engineer at Adaptivia GmbH

Programming of 16 bit low power SoC devices for wireless underground sensor networks.
- C, Embedded system engineering, System and Network design

Education

2018-2019: Master in Artificial Intelligence at Universidad Internacional de La Rioja

Master Thesis: "Breakfastclub: Using an agent-based model to simulate a virtual classroom".
- Cognitive Neuroscience, Automatic reasoning and planning, Natural Language Processing, Deep Learning

2010-2012: Master in Parallel and Distributed Computing at Universidad Politécnica de Valencia

Master Thesis: "Peer selection and Bandwidth allocation methods in BitTorrent Systems"
- Distributed Systems, P2P Networks, Parallel Computing, High performance computing

2005-2009: Bachelor in Computer Science at Technical University of Vienna

Bachelor Thesis: "Course Timetabling using Constraints satisfaction programming"
- Software Development, Embedded system engineering, Computer Theory

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*.