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

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github.com/mapa17

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Skills

Programming

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

Machine Learning

scikit-learn, Tensorflow, PyTorch

Data Science

numpy, scipy, pandas
matplotlib, seaborn, plotly

Platforms & Technologies

Jenkins, Spark
Docker, Kubernetes
GCP, AWS, Azure

Experience & Education

2020 — **Data Scientist**

Craftworks GmbH

Solution focused development of data science projects for customers from various industries.

- Frameworks: TensorFlow, Spark
- Data Visualization: Plotly

2019 - 2012 — **Scientific Software Engineer**

Biocomp / 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.

- Languages: Python, Matlab, R
- Data Visualization: matplotlib, seaborn
- Data Processing: numpy, pandas
- Data Analysis: scipy, scikit-learn

2012 - 2011 — **Research Assistent**

Universidad Politécnica de Valencia

Developing a simulation environment controlled by a stationary replica of a autonomous vehicle.

- Languages: Python, C
- Developing simulation software

2010 - 2007 — **Embedded System Engineer**

Adaptivia GmbH

Programming of 16 bit low power SoC devices for wireless underground sensor networks.

- Language: C
- Embedded system engineering
- System and Network design

2007 - 2000 — **Various Internships**

Database Developer
System Administrator
Infrastructure Maintenance
...

2019 - 2018 — **Master in Artificial Intelligence**

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

2012 - 2010 — **Master in Parallel and Distributed Computing**

Universidad Politécnica de Valencia

Master Thesis: "Peer selection and Bandwidth allocation methods in BitTorrent Systems"

- Distributed Systems
- P2P Networks
- Parallel Computing
- High performance computing

2009 - 2005 — **Bachelor of Technical Informatics**

Technical University 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*.