

Manuel Pasieka

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Profile

Builder, entrepreneur, and AI consultant with extensive experience in leveraging artificial intelligence to enhance business processes, drive innovation, and reduce operational costs. Skilled in developing AI solutions from concept to implementation, with a focus on cutting-edge technologies and methodologies.

Skills & Tools

Development

- System Architecture, Python, C, Matlab, R

ML & Data Science

- PyTorch, Tensorflow, Data visualization, NLP, Topic Modelling, LLM fine-tuning, prompt engineering, RAG, Vector Databases, GNN

Infrastructure

- AWS, Azure, Docker, Terraform, GitOps, MLFlow, AWS SageMaker, OpenTelemetry, PostgreSQL, redis, AWS Redshift, pyspark, celery, airflow
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Professional Experience

Kapsch TrafficCom AG – AI Consultant

May 2024 – Present

- Spearheading AI initiatives to optimize business processes using large language models (LLMs).
- Identifying innovative AI use cases to enhance operational efficiency.
- Conducting vendor evaluations and gap analysis.

Tools: RAG, NLP, Requirement Analysis, Stakeholder Management

CANCOM Austria AG – AI Solution Architect

May 2024 – Present

- Leading the development of an AI agent platform based on Retrieval Augmented Generation (RAG) for knowledge management.
- Designing scalable data processing pipelines and platform enhancements to meet customer-specific needs.
- Utilizing Azure AI Search and Azure OpenAI to enable efficient data storage and large-scale inference.

Tools: Python, Azure, RAG, NLP, Azure AI, Microservices, CI/CD

Pallas – Founder

June 2023 – May 2024

- Established a Knowledge Management System leveraging RAG for secure, scalable document Q&A.
- Integrated multiple knowledge bases for improved data retrieval and management.
- Implemented advanced search capabilities using open-source large language models.

Tools: Python, RAG, NLP, Vector Database, LLM Fine-tuning, OTEL, Microservices, CI/CD, Product Development, Sales

Motius GmbH – Tech Lead & Data Engineer

April 2022 – April 2024

- Led the development of a spare part observability platform for Siemens, enhancing supply chain transparency.
- Architected a reliable cloud-based system for data processing and storage.
- Developed a multi-tenant solution with optimized performance for database access.

Tools: Python, pandas, Azure, Celery

CARIAD – Tech Lead & Data Engineer

April 2022 – June 2023

- Developed a voice analytics platform to extract insights from customer interactions for improved business decision-making.
- Designed and maintained a comprehensive data pipeline for voice data processing and analysis.
- Created a Tableau dashboard for analysts to visualize customer sentiment and trends.

Tools: Python, NLP, Topic Modelling, Tableau, AWS Redshift,

Brantner Digital Solutions GmbH – AI Architect

May 2022

- Prototyped enhancements for machine learning training pipelines, focusing on dataset and model performance tracking.

Tools: Python, MLFlow, Data Lineage

mySugr GmbH – AI Consultant

March 2023 - June 2023

- Conducted training on large language model concepts for employees.
- Workshops on identifying and selecting internal LLM use cases and prototypes.

Tools: Teaching, Workshop creation

MOSTLY.AI – Senior Machine Learning Engineer

June 2020 - April 2022

- Developed and improved synthetic data generation technologies, ensuring high-quality data privacy.
- Provided technical guidance for customer PoCs and developed training materials for ML applications.

Tools: Python, Tensorflow, PyTorch, NLP, PoC management

Craftworks GmbH – Data Scientist

January 2020 - April 2020

- Delivered data-driven solutions across various industries, focusing on customer-specific requirements.

Tools: Python, Pytorch, Tensorflow, Pyspark

Vienna Biocenter Core Facilities – Scientific Software Engineer

June 2012 - October 2019

- Created data analysis software for neuroscience, enabling automated behavior quantification and neural activity analysis.

Tools: Python, Matlab, R, Data Analysis & Visualization

Automotive Research Institute of the University of Valencia – Research Assistant

September 2011 - October 2012

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

Tools: Python

Adaptivia GmbH – Embedded System engineer

June 2007 - September 2009

- Development of 16-bit low power SoC embedded systems for wireless underground sensor networks.

Tools: C

Entrepreneurship

Pasieka AI Solutions GmbH – CEO

April 2024 - Present

- Provides strategic AI consultancy and bespoke software solutions to help businesses leverage AI effectively.

Austrian Artificial Intelligence Podcast – Founder & Host

April 2021 – Present

- Hosts discussions with AI experts, exploring innovative methods and use cases in the Austrian AI landscape.
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Education

- **Master in Artificial Intelligence**, Universidad Internacional de La Rioja, Spain, 2018-2019
 - **Master in Parallel and Distributed Computing**, Universidad Politécnica de Valencia, Spain, 2010-2012
 - **Bachelor's in Computer Science**, Technical University of Vienna, Austria, 2005-2009
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Certifications

- AWS Certified Cloud Practitioner
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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', *Molecular Psychiatry*.
 - 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', *Molecular Psychiatry*.
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