

Patrick Deutschmann

✉ patrick.deutschmann@me.com | 🏠 deutschmann.xyz | 📄 github.com/deutschmn | 🌐 linkedin.com/in/patrick-deutschmann

Experience

Machine Learning Engineer

Working remotely from Graz, Austria

Dedalus HealthCare

09/2022 - Current

- Developing machine learning models for predicting the risk of adverse events in hospitals
- Researching NLP in the health care domain
- Maintaining MLOps pipelines and CI/CD

Research Intern / NLP Deep Learning Researcher

Paris, France

Buster.Ai

07/2021 - 04/2022

- Stayed up to date with state-of-the-art research papers on machine learning (especially NLP) and presented new developments to the team
- Surveyed and experimented with more efficient Transformers and multi-modal models for fact-checking applications
- Built information retrieval, semantic search and natural language understanding pipelines using Python, PyTorch, Hugging Face Transformers, Deepset Haystack and PyTorch Lightning
- Followed clean coding practices with automated tests, code review and CI/CD on GitLab

Full Stack Software Developer

Graz, Austria

All for One Group (20h/week)

08/2017 - 05/2021

- Developed web apps and data integration pipelines
- Consulted customers and held workshops to create tailored solutions
- Deployed and monitored solutions in cloud environments (AWS, Azure, SAP BTP)

Education

Computer Science (MSc)

Graz, Austria

Graz University of Technology

2019 - 2022

- Majored in machine learning with courses on statistics, deep learning, ML Ops, natural language processing (NLP) and computer vision
- Passed with distinction (grade average: 1.1 where 1.0 is best and 5.0 is worst)
- Thesis: More is More: An Analysis of Using Efficient Transformers for Fact-Checking (written while employed at Buster.Ai, see above)

Exchange semester

Compiègne, France

Compiègne University of Technology (Alliance Sorbonne Université)

2020

- Exchange semester with courses on optimization, decision theory and deep learning

Business Administration (BSc)

Graz, Austria

University of Graz

2018 - 2021

- Majored in Banking and Finance
- Thesis: Sentiment for Price Prediction (SePP): Predicting Stock Performance Based on Tweets

Software Engineering (BSc)

Graz, Austria

Graz University of Technology

2016 - 2019

- Passed with distinction; on dean's list of top 5% of students every time since its inception
- Thesis: Security Aspects of Container Orchestration (Kubernetes and Docker security)

Projects

Dependable Classification

Siemens AI-DA

- Won a prize in a challenge to reliably solve a safety-critical classification problem
- Developed a deep neural network that provides guarantees for local robustness using perturbation analysis based on linear relaxation

Modelling Air Pollution

Graz University of Technology

- Built an interpretable graph neural network that predicts air pollution based on weather data

Languages

English fluent

German native

French confident