



Ana Stanojevic

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GitHub: [ana-stanojevic.com/github](https://github.com/ana-stanojevic) | Google Scholar: ana-stanojevic.com/scholar

Profile

AI Engineer with a PhD from EPFL and 5+ years of combined research & engineering experience in spiking neural networks, deep learning, and large-scale AI systems. Skilled at **bridging research depth with practical prototyping**, building systems that work in practice while solving complex, *high-impact problems*. Looking for applied AI/ML engineering roles where rigorous methods meet real-world applications, in an environment with hybrid flexibility and meaningful projects.

Core Skills

- **Programming & ML:** Python, C++, PyTorch, TensorFlow, scikit-learn, Transformers, CUDA
- **Systems & Tools:** Docker, Git, Linux, SQL, LaTeX, LangChain, FAISS
- **Big Data:** Apache Spark, Hadoop HDFS, Kafka
- **Soft skills:** Communication, collaboration, project leadership, cross-functional teamwork
- **Languages:** English (C2), German (B1), French (A1)

Professional Experience

Huawei Research Center, Zürich - Researcher in Storage (AI/ML)

Jan 2024 - Feb 2025

- Optimised embeddings for large textual databases and RAG pipelines for robust and low-latency retrieval.
- Worked on distributed LLM inference systems, improving efficiency and scalability.
- Tech stack: PyTorch, Transformers, LangChain, CUDA.

IBM Research, Zürich - Predoctoral Researcher, Machine Learning

Oct 2019 - Dec 2023

- Developed supervised learning and inference methods for spiking neural networks with temporal coding.
- Built and validated computer vision prototypes using SNNs.
- Tech stack: Python, TensorFlow, Docker, scikit-learn.

Google, Zürich - Software Engineer Intern (Google Assistant)

Aug 2018 - Feb 2019

- Improved answer relevance for multi-query conversations in Google Assistant.
- Worked with BERT-based models in C++ and Python.

IBM Research, Zürich - Research Intern (Machine Learning)

Feb 2019 - Aug 2019

- Built spiking neural network classifiers for file classification tasks.

Education

EPFL, Lausanne - PhD in Computer & Communication Sciences

Feb 2020 – Dec 2023

- Research: supervised learning and inference of spiking neural networks with temporal coding.
- Supervisor: Prof. Wulfram Gerstner.

EPFL, Lausanne - MSc in Communication Systems (Data Analytics)

Sept 2016 – Sept 2019

University of Belgrade - School of Electrical Engineering

BSc in Electrical & Computer Engineering, Computer and Software Engineering track

Sept 2012 – Aug 2016

Selected Projects (GitHub Showcase)

- **C++ Deep Learning Prototype** - lightweight multi-layer perceptron (MLP) implementation in modern C++ demonstrating low-level ML fundamentals and efficient system design. [🔗 `cpp-ffn`](#)
- **Vision Classification in PyTorch** - applied computer vision pipeline including training, evaluation, testing, and deployment; efficient on resource-constrained hardware. [🔗 `pytorch-vision-pipeline`](#)

Research Impact

- Citations: 100+ | h-index: 5 | i10-index: 2
- Publications in top journals and conferences, including *Nature Communications*, *Neural Networks*.
- Patents: *Neural Network Having Accuracy-Latency Balance* (2025); *Approximation-Free Neural Network Mapping* (2025).

Awards & Diplomas

- IBM Research Zürich - Pat Goldberg Honorable Mention Award (2025)
- ETH Zürich - Summer School on Open Source IC Design (2024)
- EPFL - Excellence Fellowship (2016–2018)
- Government of Serbia - Dositeja Award (2015/2016)

Volunteering

Powercoders, Zürich - IT Trainer

Sept 2019 - Jun 2021

- Taught programming and supported refugee integration into the IT workforce.