

Ing. Martin Kratochvíl

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<https://mkratochvil.netlify.app>

Skills

Languages: Python, TypeScript, C, Go, SQL, HTML, CSS

Frameworks: TensorFlow, PyTorch, React

MLOps: Docker

Data: PostgreSQL, ElasticSearch, FAISS

Tools: Git, Linux

Experience

ML Engineer, Retia, a.s. – Pardubice

April 2023– Present

- Built custom transformer model based on BERT architecture to classify call transcripts
- Created no-code platform where customers can train their own classification models, then deploy the models to production
- Fine-tuned ML model based on MT5 architecture to create short summaries of call transcripts
- Used methods such as tf-idf vectorization or PCA to cluster texts for exploratory analysis and discover the most relevant words in each cluster
- Deployed ML models using Docker containers

Computational Physicist, ÚJV Řež, a.s. – Prague

October 2020– March 2023

- Created in-house tools for nuclear thermal-hydraulics and system analysis in C
- Built data pipelines for coupling of multiple computational codes
- Employed LSTM neural networks to quickly predict or classify transient events occurring during reactor operation

Projects

Daily Portfolio Management

<https://github.com/MartinKratochvilProgramy/DPM>

- Full-stack hobby project written in Next.js
- Create your own stock portfolio and monitor your investments with real-time updates

Education

CTU in Prague – Master of Science in Mechanical Engineering

September 2020