Jana Řežábková

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EDUCATION

MSc in Artificial Intelligence
Oct 2019 - Jun 2022 | MFF | Prague
- Machine learning / Traditional AI
- Study exchanges:
  - University of Luxembourg (5 mos)
  - University of Ljubljana (5 mos)
- Thesis in cooperation with Czech Academy of Sciences: **Analysis of structural ML modeling on fMRI scans**

BSc in Computer Science
Oct 2016 - Jun 2019 | MFF | Prague
- Algorithms / Data structures / Math
- Thesis: **Novel machine learning approach to predicting speed of sound**

BSc in Chemistry
Oct 2015 - Jun 2018 | FSc | Prague
- **Part of organometallic lab for 3 years**
- Thesis: Synthesis and coordination study

SKILLS

Data and ML
PyTorch • Spark • scikit-learn • scikit-tda • MLflow • Hugging Face • pandas, NumPy, …

Front-end
HTML • Sass • JavaScript • Svelte

Back-end
Python • C# • PostgreSQL

General
Git • code reviews • project planning • LaTeX • Figma • VSCode

LANGUAGES

Czech: Native

English: Fluent

INTERESTS

Machine learning
NLP • Information retrieval • Question answering • Model compression

Personal
Squash • Bouldering • Baking • Gardening • Nonfiction literature

EXPERIENCE

SEZNAM.CZ ML Researcher for Full-text Search Engine
Sep 2021 – Present, Full time
- Our team pioneers use of semantic models in **relevance ranking** and ships **direct answers** feature.
- Working with **Transformer based models** under strict latency and memory limits. Head developer of internal training library with support for siamese models, knowledge distillation, etc.
- Product and data specification, reading and drawing inspiration from state-of-the-art research papers, analysis of search logs, A/B testing.

KNOWLEDGEPICKER Co-founder & Lead Programmer
Jul 2019 – Jul 2021
- Co-founded web application for gathering, organizing and reviewing links to learning resources to empower everyone to discover and learn.
- Involved in planning, project pitching, design, programming.
- Responsible for backend (ASP.NET Core, C#), frontend (Sass, TypeScript), database (PostgreSQL), and UX/UI (Figma).
- The project won multiple accolades:
  - **Microsoft Imagine Cup World Finalist**. Top 40 from >1000 teams.
  - Top 30 early Czech startups in Vodafone Idea of the Year 2021.

CHARLES UNI Python, Data structures + Algorithms Teacher
Oct 2019 – Oct 2020, Part time
- **Introduction to programming in Python**: Helped 20+ students start with Python through hands-on class with live coding and individual approach.
- **Algorithms and data structures seminar**: Guided students in collaboratively solving algorithmic problems on discussed topics.

DATAMOLE Data Science Intern
Oct 2018 – Sep 2019, Part time
- Worked in 3 member teams on **machine learning projects for agriculture** (e.g., predicting cow heart and respiration rate from pulse Doppler radar).
- Responsible for acquiring domain knowledge, data exploration, building and training models.

AWARDS

Google Prague 360 | Prague, Jul 2020 - Oct 2021
Won opportunity to shadow Google's regional director Tania le Moigne thanks to PročByNe? initiative.

UWC Red Cross Nordic Scholarship | Norway, 2013 - 2015
One of five students selected to represent Czechia at prestigious international school. Lived and studied with 200 students from over 70 countries. Scored top 1.0 % worldwide in the IB Diploma. Volunteering: yoga lecturer in rehabilitation center and skin diving instructor for kids.