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Education

Master's degree
Computer science
[University of Ljubljana](#)
📅 2014 - 2017
📍 Ljubljana, Slovenia

Bachelor of science
Computer science
[University of Ljubljana](#)
📅 2012 - 2014
📍 Ljubljana, Slovenia

Skills

Python (PyTorch, Pandas, Scikit-learn, NumPy, Flask)
SQL (SQLite, Postgres)
Natural Language Processing
Machine Learning

Publications

- [Enhancing deep neural networks with morphological information](#)

Luka Krsnik

Software developer | ML engineer

Summary

A software developer/ML engineer, with 7 years of experience working on various natural language processing tasks. Seeking a practical challenge where I can use and expand my knowledge and experience.

Work experience

Software developer / ML Engineer 📅 Mar 2017 - Jun 2024

[Centre for Language Resources and Technologies](#)

Collaborated closely with linguist researchers, to develop tools for text analysis and automated annotations.

- Enhanced and developed multiple tools actively utilized for research projects ([STARK](#), [cordex](#) and [Classla](#))
- Designed and implemented several LSTM neural networks, improving annotation quality across various languages ([Classla](#), [stress assignment](#))
- Developed a BERT-based tweet selection tool, for selecting tweets for subsequent manual annotation ([standardness](#))

Research Scientist 📅 Aug 2018 - Oct 2021

[University of Ljubljana, Faculty of Computer and Information Science](#)

Participated in research involving cross-lingual embeddings and multilingual models (multilingual BERT)

- Designed experiments to assess the impact of adding morphological data on the performance of neural networks ([BERT](#), [Fasttext+LSTMs](#)).
- Conducted end-to-end experiments across multiple languages, applying this approach to Named Entity Recognition (NER) and subsequently published findings in the [Natural Language Engineering journal](#).
- Explored cross-lingual model transfer through experiments involving embeddings and anchor points ([anchor points](#)).