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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.

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

Work experience

Software developer / ML Engineer — Mar 2017 – Jul 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, svala and LIST)
- Trained, improved and maintained multiple models for tokenization, lematization, morphological annotation and dependency parsing (Classla and trankit)
- Developed neural networks, that solved various natural language processing problems (standardness and stress assignment)

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).
- Applied 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).