Ekaterina Loginova

contacts

+32 493 67 20 87
LinkedIn: edloginova
ekaterina.d.loginova@gmail.com
edloginova.github.io

languages

English (C1, IELTS 8)
Dutch (B1)
Russian (native)

programming languages

Python
Matlab, R (basic)
C++, Java (elementary)

skills

machine learning, data science
LLMs (prompt engineering,
fine-tuning, RAG)
NLTK, spaCy
PyTorch, HuggingFace, Docker,
Git, Jupyter, LaTeX
ElasticSearch, neo4j, MongoDB,
SQL
Flask, HTML, CSS, JavaScript

hobbies

writing, travelling, photography,
digital art

personality type

INFP (Mediator) + ISTJ
(Logistician)

references

Dries Benoit
Professor
Ghent University
Data Analytics Cluster
dries.benoit@ugent.be

Jeroen Boeye
Head of AI
Faktion
jeroen@faktion.com

experience

Nov 2022 - now — **NLP and ML Engineer** — Dedalus
Python pipelines for in-house research and development of intelligent health-care systems: multilingual clinical negation detection, named entity recognition, relationship extraction. Improved latency & throughput of all components, with up to x8 wins in processing speed. Devised the relation extraction approach that improved performance x2. Incorporated LLMs into labelling, creating new training and evaluation datasets + lowering cost and time. Implemented deep learning negation detection, improving the classification performance and ease of maintenance. #2 code contributor in a team of 14.

Feb 2022 - now — **R&D Volunteer Team Lead** — Oplot
ML and NLP against propaganda and disinformation. Coordinating a multidisciplinary remote volunteer group. Mentored the winning teams in the Projector 2023 and 2024 hackathons. Won Demhack 7 hackathon, the Reforum accelerator, and IREX research grant. Presented on AI for NGO conference. Organised "Fine-tuning LLMs for NGOs" week-long workshop.

Mar 2021 - Oct 2022 — **Senior NLP Engineer** — Faktion
Semantic search, topic modelling, text classification for Dutch (government projects). Text quality assessment for English (legal domain).

Oct 2017 - Aug 2018 — **Researcher** — DFKI
Deep Learning in Question Answering. LSTM and CNN-based models (mono- and multilingual). See publications + my Medium post on attention in NLP.

2016 - 2018 — **Kaggle**
Toxic Comment Classification Challenge - top 19%

education

2018 - 2022 — **PhD** Educational Data Mining — Ghent University
(#1 in Belgium, #74 in the world)
NLP for personalised education (see dissertation). TA "Statistical Modelling and Data Mining", "Bayesian Statistics". DeepBayes summer school. Workshops on public speaking for research.

2016 - 2017 — **Advanced Master** Artificial Intelligence — KU Leuven
(#42 in the world)
Cum laude. Speech and Language Technology option. Thesis on sentiment analysis for opinion mining.

2011 - 2015 — **Bachelor** Applied Mathematics and Information Science — HSE
(#3 in Russia)
Average grade: 8/10. More info: cs.hse.ru/en.

publications

ECML-PKDD 2024 — **Active Learning to Guide Labeling Efforts for Question Difficulty Estimation** — pdf

RANLP 2021 — **Towards the application of calibrated Transformers to the unsupervised estimation of question difficulty from text** — pdf

AI*QA 2018 — **Towards Multilingual Neural Question Answering** — pdf
published in Information Systems Frontiers.

+ 7 more, including in Machine Learning journal

certificates

2021 — **DeepLearning.AI TensorFlow Developer Professional Certificate 98.5%** — DL.AI

+ 7 more