Lena Shakurova

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🌐 https://github.com/Shakurova

Education

Radboud University   **Nijmegen**
Master, Artificial Intelligence   *2017–present*
Advanced Research Methods   ·   Text Mining   ·   Statistical Machine Learning

National Research University Higher School of Economics (NRU HSE)   **Moscow**
Bachelor, Computational Linguistics,   *2013–2017*
GPA: 8.7/10
Courses: Discrete Mathematics   ·   Programming (Python)   ·   Linear Algebra and Mathematical Analysis   ·
Web-Design   ·   Computer Tools for Linguistic Research   ·   Programming (R)   ·   Theory of Algorithms   ·
Automatic Natural Language Processing   ·   Databases   ·   Information Retrieval   ·   Neurolinguistics

University of Helsinki   **Helsinki**
Exchange student, Computational Linguistics,   *2015–2016*
GPA: 3.48/4.00
Courses: Programming and Natural Language Processing (NLTK)   ·   Morphological Processing Tools (HFST)

Coursera
Additional Courses   *2015–2017*
Probability (Penn University)   ·   Machine Leaning (Stanford University)   ·   Divide and Conquer, Sorting and
Searching, and Randomized Algorithms (Stanford University)

Technical and Personal skills

- **Programming Languages:** Python, R, Matlab.
- **Web-desing Skills:** HTML, CSS, JavaScript, Flask, Scrapy.
- **Databases:** MySQL, SQLite, MongoDB, PostgreSQL, Elasticsearch.
- **Machine Learning:** Sklearn, WEKA, Keras.
- **NLP instruments:** PRAAT, ELAN, Tomita Parser, Toloka, NLTK, LUIS.
- **Other:** LaTeX, Jupyter Notebook, git, bash, Linux.
- Sentimental Analysis, Chatbots, Word sense disambiguation (WSD), Topic modeling, Named Entity Recognition (NER), Web-crawling, Document clusterisation, Text classification, Dupplicates detection

Projects and Professional Experience

Professional Experience

○ **NCEM** — **Moscow**
Computational Linguist — *August 2016–August 2017*

Working in a team developing monitoring system. I was in charge for the part of the project connected with artificial intelligence and computational linguistics.

My responsibilities included applying machine learning algorithms to develop text classificator, solving document clustering problems, solving text mining and fact extraction problems, extracting geo locations, writing web-crawlers, writing documentation and working with relational databases.

○ **TT-Consult** — **Moscow**
Junior Web Developer — *June 2014–August 2016*

Editing content, debugging code, re-designing web page and doing Search Engine Optimisation.

Projects

○ **Automatic language test generator**

The application generates language tests for a given text in Russian language. The technology is easily scalable to another language when language corpora and morphological parser of a good quality given. https://github.com/Shakurova/AutomaticTestGenerator.

○ **Chatbot for collecting periphrases of facts**

Telegram chatbot collects periphrases of facts (fact of work, for example). The chatbot interacts with users and get information about different facts. Collected data can be used to train machine learning models for text mining https://github.com/Shakurova/Paraphrase$_b$ot.

○ **Computer tool for a quantitative typological research**

The program analyses the distribution of adjectives, generates comparison tables and draws graphics of correlations. Interaction with the user interface has also been created. Using results of this program I proved the hypothesis that adjectives like 'wet', 'damp', 'humid' differ not only in the degree for qualities. The study has been carried out for 3 languages: Russian, English, German. https://github.com/Shakurova/ngrams.

Additional Information

Professional Interests

Speech Recognition · Recommendation Systems · Sentimental Analysis · Dialog Systems · Word Sense Disambiguation · Topic Modeling · Named Entity Recognition · Automatic Summarization · Machine translation · Information Retrieval · Intent detection

Conferences

○ **Conference ConCort on Digital Humanities** — **Nizhnyj Novgorod**
"Instruments of Quantitative Typological Research" — *October 2016*

Awards

○ **Orange Tulip Scholarship Russia** 2017 awardee

Certificates

○ **NRU HSE:** 2d degree certificate, Competition in Computational Linguistics.
○ **Humboldt Universitat:** Semi-intensive German language course, A2.
○ **Helsinki University:** Certificate of completion the Language Center Course Assistant program in

Russian language teaching.

Publications

- **Universal Dependencies for Russian: A New Syntactic Dependencies Tagset,** Lyashevkaya O., Droganova K., Zeman D., Alexeeva M., Gavrilova T., Mustafina N. and Shakurova E., 2016 https://papers.ssrn.com/sol3/papers.cfm?abstract$_i d = 2859998$

Language Skills

- **Native:** Russian
- **Advanced:** English (C1 CEFR Level, CAE)
- **Intermediate:** German, Dutch
- **Basic:** Spanish, Finnish, French

Volunteering

- **President of Language Exchange Committee** at ISN Nijmegen, 2017 - 2018

Interests

Programming · Web-design · Travelling · Music · Psychology · Literature