

Luiza Sarzyniec (Orosanu)

Machine Learning Engineer

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Experience

- Jan 2019
- Present
- Machine Learning Engineer, Textkernel** Amsterdam, Netherlands
Project leader, software engineer and machine learning engineer roles.
Main developer and owner of the skills extraction and normalization service providing the company's Skills API. Improved and standardized CI/CD pipelines of the R&D department by implementing generic templates (automated release and deployment pipelines, track microservice performance on changes, track parsing quality on resource updates). Led a taskforce to improve performance and memory usage on microservices, to optimize resource consumption on k8s clusters. Actively involved in maintaining and improving the company's code base (refactoring, creation of libraries, separation of concerns, documentation, etc).
Part of the DevOps rotation schedule, including monitoring & firefighting activities. Part of the support rotation schedule, answering questions, debugging and fixing systematic errors on the company's CV parsing and vacancy parsing tools. Adept of leading by example and sharing knowledge.
- Python, Perl, Shell, Elasticsearch, Kibana, Git, GitLab, Jenkins, Docker, Kubernetes, GitOps
- Nov 2017
- Aug 2018
- Machine Learning Engineer, Qwant** Epinal, France
Automatic query correction for Qwant search engine. Fixed isolated non-word errors by generating low-distance corrections and ranking them with a language model.
- Python, Shell, Git, GitLab, Docker
- Oct 2016
- Oct 2017
- Machine Learning Engineer, Xilopix** Epinal, France
Binary webpage classification (for sports content filter) and image color classification (for color-wise image filter) for Xaphir search engine.
- corpus building, data processing, TF-IDF, LSA, classification, neural networks
 - Python, Ruby, Shell, Git, Gerrit, Docker, Elasticsearch
- Dec 2012
- Feb 2016
- PhD student, Inria** Nancy, France
Speech recognition to help communication with hearing impaired people. Defined a hybrid language model combining words and syllables to cover out of vocabulary words. Used a similarity-based approach to add new words into a language model. Detected questions using prosodic and linguistic features.
- hybrid n-gram language model, similar words, feature engineering, question detection
 - Perl, Java, Shell, Gnuplot, LaTeX, Git, distributed computations
- Extra: responsible of the international network (activities, help with administrative procedures)
- Oct 2011
- Nov 2012
- Junior Engineer, Inria** Nancy, France
Speech recognition for second language learning: detection of incorrect entries.
- feature engineering based on 2 text-to-speech alignments, model selection
 - Perl, Shell, Gnuplot, LaTeX
- Feb 2011
- June 2011
- Intern, Université de Lorraine** Nancy, France
Speech recognition with remote sound for home automation.
- model adaptation, hyper parameter tuning, model selection
 - Perl, Java, Shell
- Feb 2010
- June 2010
- Intern, Universitatea Stefan cel Mare** Suceava, Romania
Head movement recognition for the gestural control of video games.
- C#, Microsoft Visual Studio, Wii remote, IR LEDs

Education

- 2012 – 2015 **PhD in computer science** Nancy, France
Université de Lorraine, Inria
- 2010 – 2011 **Master of research in computer science** Nancy, France
Université de Lorraine
- 2006 – 2010 **Bachelor's degree in computer science** Suceava, Romania
Universitatea Stefan cel Mare

Personal profile

Love to solve problems
Continuous learner
Precisionist (DISC)

Online Certifications

- Machine Learning** Coursera, 2018
Deep Learning Coursera, 2018

Computer Skills

Machine Learning

Neural networks (dense, CNN, RNN), linear/logistic regression, decision trees, word embedding, n-gram language model

Programming languages

Python (*keras, sklearn, gensim, numpy, pandas, spacy, fasttext, matplotlib, jupyter*), Perl, Shell Script, Ruby, Java, C/C++, C#

Database

Elasticsearch, SQL, MongoDB

Software engineering

Git, GitLab, Jenkins, Docker, Kubernetes, automation, testing, continuous integration

Language skills

English, French: fluent
Romanian: native

Programming challenges

ACM-ICPC Romania - 2008, 2009

Scientific contributions

11 articles (2 Interspeech), PhD thesis