Curriculum vitae

Personal information

Name and surname: Iryna Korshunova
E-mail: irene.korshunova@gmail.com
Current location: Ghent, Belgium
Date of birth: 27 April, 1991

Website: http://irakorshunova.github.io/
LinkedIn: https://www.linkedin.com/in/IraKorshunova
Github: https://github.com/IraKorshunova
Kaggle: http://www.kaggle.com/users/190873/golondrina

Education

M.S. in Statistical Data Analysis Ghent University, Belgium	Sept. 2013 – Sept. 2015
M.S. in Applied Mathematics Faculty of applied mathematics, National Technical University of Ukraine "Kiev Polytechnic Institute"	Sept. 2012 – June 2015
B.S. in Applied Mathematics Faculty of applied mathematics, National Technical University of Ukraine "Kiev Polytechnic Institute"	2008 – 2012, Diploma with honours

Projects and research

Python+Theano (2014-2015)**:**

- National Data Science Bowl ($\approx$ Deep Sea $\approx$ team 1st/1049, Kaggle) [blog post]
- American Epilepsy Society Seizure Prediction Challenge (10th/504, Kaggle) [code]
- DecMeg2014 - Decoding the Human Brain (19th/ 267, Kaggle)
- UPenn and Mayo Clinic's Seizure Detection Challenge (56th/200, Kaggle)[code]

C++ (2013)**:**

- Numerically stable implementation of Viterbi and Forward-Backward algorithms in context of Hidden Markov Models [code]

Java (2010-2012)**:**

- [Classification of psychiatric problems based on saccades](#) (2nd award in IJCNN 2012 Competition: International Joint Conference on Neural Networks, Brisbane, Australia)
- Classifier of the bone shapes for arthritis diagnostics with free-knot splines
- Illustrative 3D visualization software for differential evolution
- Application for melody generation and its harmonization[[code](#)]

Work Experience

Research Engineer Intern

Grammarly, Inc., Kiev, Ukraine

1. implemented an algorithm for topic model evaluation,
2. developed a method for combining different models used in contextual spell checker
3. changed an evaluation mechanism of the contextual spell checker
4. compared the performance of several named-entity recognizers
5. created a multipurpose corpus, based on Wikipedia
6. started a research on word representations and neural network language models

Summer 2013

Publications

- *Iryna Korshunova, Pieter Buteneers*, *Sander Dieleman, Joni Dambre* Epileptic seizure prediction using convolutional neural networks // 31st International Epilepsy Congress, Istanbul 5-9 Sept, 2015 (accepted for a best poster presentation)
- *Iryna Korshunova* Classification of functional data with free knots splines // System Research and Information Technologies. — 2014. — № 2. — P. 115–124. [[abstract](#)]
- *Iryna Korshunova* Free knot splines for functional data classification // SAIT 2012: International Conference on System Analysis and Information Technologies, Kyiv, Ukraine

Skills and competences

Languages

- English – fluent
- Dutch – beginner
- Ukrainian, Russian – native

Computer skills

- Programming languages: Python (+Theano), R, Java SE
- Other: Linux, Git, LaTeX, Weka, Mallet

Interests

Playing cello (currently at Ghent University Symphony Orchestra), hiking