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

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

Courses: *Analysis of Continuous Data, Categorical Data Analysis, Computerintensive Statistical Methods, Data Mining, Multivariate Data Analysis, Principles of Statistical Data Analysis, Statistical Computing, Statistical Inference*

Sept. 2013 – Sept. 2015

M.S. in Applied Mathematics

Faculty of applied mathematics,
National Technical University of Ukraine “Kiev Polytechnic Institute”

Main courses: *Numerical Methods of Mathematical Physics, Programming Language Compilers, Software Design, Soft Computing*

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 (≈ Deep Sea ≈ 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 (2^{nd} 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

Work Experience

Research Engineer Intern

Grammarly, Inc., Kiev, Ukraine

Summer 2013

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

Publications

- *Korshunova I.* Free knot splines for functional data classification // SAIT 2012: International Conference on System Analysis and Information Technologies, Kyiv, Ukraine
- *Korshunova I.* Classification of functional data with free knots splines // System Research and Information Technologies. — 2014. — № 2. — P. 115–124. [abstract]

Skills and competences

Languages

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

Computer skills

- Programming languages: Python (+Theano), R, Java SE
- Toolkits: Weka, Mallet, Apache OpenNLP

Other

- Playing cello (currently at Ghent University Symphony Orchestra)
- Hiking