Daniel T. Soukup

Data Scientist & Mathematician

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Skills and strengths

- High proficiency with Python [`pandas, numpy`]; friendly with Java & SQL.
- Strong Machine/Deep Learning knowledge [`sklearn, Keras, PyTorch`].
- Professional experience with NLP techniques and packages [`spaCy, NLTK`].
- Relentless problem solver; engaging public speaker; dedicated team player.

Education

University of Toronto (Canada)

- 2015, PhD in Mathematics
- Ontario Trillium Scholarship

Eötvös Loránd University (Budapest, Hungary)

- 2011, MSc in Mathematics
- 2009, BSc in Mathematics

- MOOCs: Strategies for Inquiry-Based Learning; Applied Text Mining; Databases and SQL [`IBM Db2 Warehouse`]; Object Oriented Design; Design Patterns (Java).

Experience

Data Scientist @ Uniqa Insurance Group (July - present, 2019)

- Medical claims classification using novel word-embedding techniques [`GloVe, word2vec, BERT`], combined CNN/LSTM architectures; cloud computing and large-scale model training with GPUs [`MS Azure`].
- 9% improvement over baseline KPI in the first month.

data4good hackathon (April 2019)

- Textual analysis of the geo-distribution of urban greening projects; cleaning and processing unstructured data; topic modelling and NER [`NLTK, gensim, spaCy`]; visualization [`seaborn, folium, networkx`]. Project website and github repo.

Course Instructor @ U of Toronto/Calgary/Vienna (2014 - 2019)

- Teaching and coordinating large undergraduate and graduate courses (200+ students, 5+ teaching assistant) in calculus, linear algebra and combinatorics.
- Cryptography outreach activities for high schools; student mentoring; Daniel B. deLury Teaching Award; excellent student reviews.

Researcher @ U of Calgary/Vienna (2016 - present)

- Major EU funding for independent research projects (MSCA, €224,933).
- Research focus: local/global analysis of large graphs and digraphs; random combinatorial objects; Ramsey theory on algebraic and topological structures.
- Plenary talks at conferences; 20 refereed publications in top international journals.