

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

- PhD in Mathematics (2015)
- Ontario Trillium Scholarship



Eötvös Loránd University

- MSc in Mathematics (2011)
- BSc in Mathematics (2009)

- MOOCs: Inquiry-Based Learning; Applied Text Mining; Databases and SQL [IBM Db2 Warehouse]; Software Design and Architecture Specialization [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; mixed data sources; 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.