

Krisztián Boros

クリスティアン・ボロシュ

 GitHub |  LinkedIn |  E-mail

WORK EXPERIENCE

Research Engineer, NEC Corporation (*contract*) May 2023 - present

Main Tasks and Responsibilities

- Building abstractive summarization workflows using Large Language Models
- Writing research papers and reports; keeping up with state-of-the-art methods

Achievements

- Published poster at IEEE BigData conference

Data Scientist, Human Resocia Ltd. Apr 2023 - present

Data Scientist, Hungarian Academy of Sciences Oct 2020 - Mar 2023

Main Tasks and Responsibilities

- Building NLP and other machine learning models in Python and R (sklearn, BERT with Pytorch, etc.)
- Set up/manage Linux server (Ubuntu LTS 22.04) with Nvidia GPU for Deep Learning
- Setting up and managing MySQL server (with phpMyAdmin), Tableau server, and Rstudio server
- Writing research papers

Achievements

- Made a BERT classification model that can classify 13 emotion categories with an f1-score between 0.70-0.80 per emotions
- Created a BERT model with domain-adaptive pretraining

Data Scientist, Eötvös Loránd University Oct 2020 - Sep 2021

Main Tasks and Responsibilities

- Analysis and preprocessing of textual data from social media in R

Achievements

- Created an R package for several preprocessing tasks (using parallel processing)

Data Scientist Intern, TÁRKI Social Research Institute Jan 2019 - Sep 2019

Main Tasks and Responsibilities

- Data analysis and modelling in R (Multilevel Linear Regression, Logistic Regression)
- Participating in a research about survey non-response

Achievements

- Wrote and presented a research paper

Data Analyst Intern, Hungarian Central Statistical Office Jun 2017 - Aug 2017

Main Tasks and Responsibilities

- Participating in the analysis of the Hungarian micro-census of 2016

EDUCATION

2021 - 2023 Research Student
2018 - 2020 MS, Statistics
2015 - 2018 BA, Sociology

Waseda University Tokyo, Japan
Eötvös Loránd University Budapest, Hungary
Eötvös Loránd University Budapest, Hungary

SKILLS

Programming Skills Python, R, SQL, shell

Version Control Git

Other Skills Linux (Ubuntu, ArchLinux), L^AT_EX, MS Office, LibreOffice

Language Skills English (fluent, TOEIC 980), Hungarian (mother tongue), Japanese (N3), German (elementary)

Last updated: January 21, 2024

CERTIFICATES

Fundamentals of Deep Learning ([Nvidia Certificate](#)) Oct 2020

Building Transformer-Based Natural Language Processing Applications ([Nvidia Certificate](#)) Dec 2020

PUBLICATIONS, CONFERENCES, POSTERS

Boros, K and Oyamada, M (2023). “Towards Large Language Model Organization: A Case Study on Abstractive Summarization”. In: *IEEE International Conference on Big Data*. Sorrento, Italy (poster).

Boros, K. (2020a). “The methodological diversity of international surveys from the perspective of non-response (Conference talk in hungarian)”. In: *Scientific Students’ Associations Conference*. Eötvös Loránd University. Budapest, Hungary.

– (2020b). “The methodological diversity of international surveys from the perspective of non-response (in hungarian)”. In: *Megközelíthetetlen csoportok elérése: hogyan lehet javítani a személyes megkeresésen alapuló empirikus adatfelvételek minőségén?* Ed. by Blanka Szeitl and István György Tóth. Budapest: TÁRKI, pp. 93–109. URL: https://tarki.hu/sites/default/files/2020-03/OTKA_kut_besz_megkozelithetetlen_csoportok.pdf.

Boros, K. and Kmetty, Z. (2022). “Identifying missing data handling methods with text mining”. *under review*.

Kmetty, Z., **Boros, K.**, Dömsödi, L. B., Knap, Á, and Mogyorósi, P. (2022). “Miniszterelnöki csata az online térben”. hu. In: *Az állandóság változása. Parlamenti választás 2022*. Budapest, Hungary: Gondolat, pp. 141–161. ISBN: 978-963-556-402-6.

Kmetty, Z., B. Kollányi, and **Boros, K.** (2023). “Boosting classification reliability of NLP transformer models in the long run”. In: arXiv:2302.10016 [cs]. arXiv. URL: <http://arxiv.org/abs/2302.10016> (visited on 01/21/2024).

Kmetty, Z., Vancsó, A., Katona, E., and **Boros, K.** (2021a). “Local context of anti-vaccination narratives – a case study from Hungary”. *under review*.

– (2021b). “Russian vaccine will be good for our politicians; I want Pfizer” – Changing narratives of vaccination in Hungary. Poster”. In: *7th International Conference on Computational Social Science IC2S2*. ETH Zürich, Switzerland (poster, online).

Kmetty, Z., Németh, R., Vancsó, A., Knap, Á. Váry, D., **Boros, K.**, and Mogyorósi, P. (2022). *Text analytics and Social Media research*. Data Collection. <https://openarchive.tk.mta.hu/508/>. Hungarian Academy of Sciences. DOI: [10.17203/KDK508](https://doi.org/10.17203/KDK508).

GRANTS AND AWARDS

Japanese Government (Monbukagakusho: MEXT) Scholarship

[Official page](#)

I was a recipient of the Research Student Scholarship in the period Sept 2021 - March 2023

HOBBIES

Reading, Body-weight training, learning, Managing home server