



Branislava Šandrih Todorović

Doctor of Computer Science

Profile

I have been actively engaged as a researcher since 2015. My main scope of interest is the development of language datasets, tools and models using machine learning techniques.

Education

PhD of Computer Science, Faculty of Mathematics, BU

October 2015 — July 2020

- Defended thesis titled [Impact of Text Classification on Natural Language Processing Applications](#) *summa cum laude* (10/10)
- In 2021 received the [Annual Award of the Mathematical Institute of the Serbian Academy of Sciences and Arts](#) in the field of computing for PhD students

MSc of Mathematics, Faculty of Mathematics, BU

October 2014 — October 2015

- Defended thesis titled [Refaktorisanje koda prema obrascima dizajna](#) [Code refactorization towards design patterns] *magna cum laude* (9.81/10)

BSc of Mathematics, Faculty of Mathematics, BU

October 2010 — June 2014

- Graduated *magna cum laude* (9.48/10)

Electrotechnician of Computing, Electrotehnics School

September 2006 — June 2010

Software Development

Developing NLP resources and tools

2017 — Present

- Deployed previously trained [CNN NER](#) model as a web service on the [ELG platform](#) as a docker image on [GitLab](#)
- Developed [BiLTe](#) online tool for the extraction of bilingual terminology lists using lexical resources (Python, flask, spaCy, NLTK, scikit-learn, fasttext, Unitex, Moses)
- Developed [NER&Beyond](#) online tools for NER-related tasks (Python, flask, spaCy, StanfordNER)
- Trained NER and several Text Classification models (Python, keras, scikit-learn, tensorflow, matplotlib, numpy, pandas) published in research papers
- Created web services for feature extraction [GDEX](#), [SMStylo](#)
- Set-up different open-source platforms on University servers (NodeJS, MongoDB)

Details

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Date of birth

19.08.1991.

Links

[GitHub](#)

[LinkedIn](#)

Skills

Machine Learning

Deep Learning

Data Processing

Data Analysis & Modeling

Natural Language Processing

Programming

Mathematics / Statistics

Communication Skills

Fast Learner

Creativity & Problem Solving

Hobbies

Watching movies in Spanish, listening quality music & self-development

Languages

Serbian

English

Spanish

German

Freelancer

2009 — Present

- Honorary coding projects, either via hiring portals (such as Rent-A-Coder/Upwork) either on recommendation

Employment History

Assistant professor at Belgrade University, Faculty of Philology

December 2016 — Present

- Teaching LaTeX, data formats, structures and algorithms, programming in Python and information retrieval to undergraduate students
- Teaching corpora compilation, text processing, semantic web, web crawling and scraping to master students
- Teaching data visualization, feature engineering, machine learning models with application to advanced NLP topics (such as named entity recognition, text classification, sentiment analysis) to PhD students
- Examining and supervising students of all levels

Junior lecturer at Belgrade University, Faculty of Mathematics

October 2015 — December 2016

- Teaching basic front-end technologies
- Teaching advanced programming in C language
- Teaching object oriented programming in Java
- Teaching data structures and algorithms

Researcher at Belgrade University

October 2015 — Present

- Compilation of various text resources (text corpora, datasets, bilingual terminology lists)
- Data annotation, visualization and analysis
- Feature engineering and selection
- Development and maintenance of tools for natural language processing (NLP)
- Training and evaluation of machine learning models for different NLP applications (word embeddings, text classification, text generation, hate speech detection)
- Writing scientific papers and publishing them in international journals
- Giving presentations at international conferences and European universities (University of Wolverhampton, UK and University of Malaga, Spain)
- Editor in chief and editorial assistant in two scientific journals

Internships

Java developer at SAP SE, R&D department, Waldorf

July 2014 — October 2014

- Full-stack developer of the KapaflexCy web/mobile application for smart working shift assignment (Java, MySQL, SAP UI5)

Summer Schools, Seminars and Courses

Deep Learning Specialization, Coursera

February 2022 — April 2022

Summer School on Deep Learning in NLP

2019

European Summer School in Logic, Language and Information

2018

Lisbon Machine Learning School

2018