



DOMNICA DZITAC

UNDERGRADUATE STUDENT

EXECUTIVE SUMMARY

I am an ambitious, curious, and interdisciplinary Computer Science graduate with a global learning experience. I am passionate about technology, human behaviour and linguistics. I am looking for an environment where I can be impactful by combining my technical background and social skills. I am particularly interested in Natural Language Understanding and Data Science. I have experience in conducting interdisciplinary Computer Science research projects. Moreover, I love data and the story it tells about how humans behave.

MY SKILLS

Technical

- Python
 - Experience with libraries such as TensorFlow, scikit-learn, PyTorch, NLTK, spaCy, etc.
 - Fine-tuning with the Hugging Face Transformers such as BERT, RoBERTa, etc.
 - Machine Learning/Deep Learning
 - SQL/Panda Dataframes
 - Data Scraping/Data Analysis
 - CheckList model analysis
- C/C++
- HTML, CSS, Ajax, PHP, Javascript
- Amazon MTurk crowdsourcing

Languages

- Romanian (Native)
- English (Native/Fluent)
- Spanish (Intermediate)

Other Skills

- Communication skills
- Leadership skills
- Writing and editing skills
- Organizational skills
- Team Work

HOW TO CONTACT ME

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ACADEMIC BACKGROUND

New York University Abu Dhabi

Bachelor of Science in Computer Science with Concentrations in Applied Mathematics and Political Science

September 2017- May 2021
Official GPA: ~ 3.8 out of 4.0

Relevant academic programs at NYU's Global Sites

Study Away Semester and Research, NYU, New York, NY | Fall 2019
U.S. in Conflict (Politics and Media), NYU, multiple sites | Summer 2019
Global Leadership Scholars Program, NYU, Washington DC | Spring 2019
Community-Driven Development (course), the Philippines | January 2019
Global Crisis in a European Context (course), NYU Paris, France | January 2018

Research interests

Natural Language Understanding (NLU), Computational Social Science, Data Science, Behavioural Economics, Machine Learning, Management

Bachelor's Thesis and Post-Graduate Practical Training Program

Researching how humans' decision making process changes when their opponent is an AI algorithm as opposed to another human being, in the Dollar Auction - a behavioural game that models conflict escalation

RELEVANT EXPERIENCE

Student Research Assistant

New York University Abu Dhabi | remote | December 2020 - April 2021
- Detecting the efficiency of counterterrorism campaigns on social media
- Using Machine Learning and NLP tools to perform Sentiment Analysis
- Analysing Big Data

Research Intern

John W. Kluge Center at the Library of Congress | Washington DC, USA | February 2019- July 2019
- Created ML Multi-Label Sentiment Analysis Classifiers to analyse collections of text from the LOC's collections
- Analysed Big Data from archives

Tech Summer Intern

Bitdefender | Bucharest, Romania | July 2018
-Web Development in Bitdefender's Could Team

Technical Assistant

International Journal of Computers Communications & Control | remote | May 2016 -present
-Enabling communication between scientists and reviewers
-Using LaTeX to edit the journal
-Creating connections with new scientists
-Working in the organising committee of international conferences (ICCCC)

RESEARCH

Published work

A. Kaklauskas, D. Dzitac, J. Sliogeriene, N. Lepkova, I. Vetloviene, "VINERS method for the multiple criteria analysis and neuromarketing of best places to live" in *International Journal of Computers Communications & Control* 14 (5), 629-646, November 2019

B. Jia, D. Dzitac, S. Shrestha, K. Turdaliev, and N. Seidaliev, "An Ensemble Machine Learning Approach to Understanding the Effect of a Global Pandemic on Twitter Users' Attitudes", *IJCCC*, Vol 2, April 2021

Work in progress

D. Dzitac, B. AlShebli, T. Rahwan, M. Waniek, "Computer-Human Interaction in the Dollar Auction Game Theory Model", 2021 (working paper)

J. Belanger, Abdelhak C, D. Dzitac, "Evaluating the effectiveness of conterterrorist campaiings on social media with the use of machine learning", 2021 (working paper)

B. Jia, D. Dzitac, W. Mirza, T. Shuster, "TCEM: An exhaustive text-to-code evaluation metricfor the auto-generated code snippets", 2021 (working paper)

OTHER ACHIEVEMENTS

Conferences, workshops and beyond

- Currently working on organising the International Conference of Computers Communications & Control 2022
- Consultant of International Relations, CCSISEO Association, Romania | 2019 - present
- Guest Speaker, NYU Global Engagement Symposium | April 2019
- Women Engineers Code Conference, Harvard University | February 2019
- TreeHacks Hackathon, Stanford University | February 2019
- Hackathon for Our Own Good, NYU Abu Dhabi | November 2018
- Discover SWUFE International Summer School of Chinese Business, Politics and Economics. Southwestern University of Finance and Economics, Chengdu, China | July 2017

Pre-university

- International Baccalaureate Diploma Programme, Denmark | 2015-2017
- Volunteer's Coordinator for "English for life" (teaching orphans English) in Romania | 2014-2016
- Euroscola Winner at the European Parliament, Strasbourg, France | April 2015
- Information Technology Olympiad | 1st prize (county) Romania | 2014
- Published 4 mathematics textbooks for middle-school available online in Romanian | 2010-2013