Richard Csaky

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EDUCATION

Budapest University of Technology and Economics, Budapest, Hungary

- MSc in Software Engineering — Sep 2018 – Jun 2020
  - Main specialization in AI and NLP
- BSc in Mechatronics Engineering — Sep 2014 – Jan 2018
  - Degree GPA: 4.79/5.00, Excellent with Highest Honours
  - Thesis: Parking Spot Recognition and Visualization with Semantic Segmentation

EEML, Bucharest, Romania

- Deep Learning and Reinforcement Learning Summer School — Jul 2019 – Jul 2019

PAPERS

- Improving Neural Conversational Models with Entropy-Based Data Filtering — May 2019
  - R. Csaky, P. Purgai, G. Recski; Proceedings of the 57th ACL conference. Code. Blog post.
- Deep Learning Based Chatbot Models (Paper) (Code) — Nov 2017
  - My notes on 150 publications that I have read in the field of deep learning, focusing on dialog agents.
- Study of protein circuits using self-developed software (Paper) (Code) — Nov 2016

AWARDS

- First place at the National Scientific Students' Associations Conference (paper) — Apr 2019
- First place at the Scientific Students' Associations Conference (paper) — Nov 2017
- Second place at the Scientific Students' Associations Conference (paper) — Nov 2016

EXPERIENCE

Robert Bosch GmbH, Budapest, Hungary

- Software Engineer, Driver Assistant Division — Apr 2018 – Aug 2018
  Continued the work described below as a full-time employee. Collected a much larger dataset and experimented with the YOLO model, with good results, pushing the project to a demo phase.
- Software Engineer Intern, Driver Assistant Division — Jul 2017 – Mar 2018
  For my BSc thesis, I built a user interface in OpenGL and OpenCV for selecting parking spots projected on the ground on the real-time feed of a camera. Moreover, I collected and labeled my own dataset, and I researched and trained semantic segmentation models. Please contact me for a copy of my thesis.

Department of Automation and Applied Informatics, Budapest, Hungary

- NLP Researcher — Feb 2018 – Present
  I am a researcher focused on neural chatbots and student supervisor. I advised an undergraduate student on a research project related to unsupervised NMT. Currently, I'm supervising several students working on my neural chatbots project (1, 2, 3).
- Teaching Assistant — Feb 2017 – Jun 2017
  I was a teaching assistant for electrical engineering labs. I helped students complete the lab by explaining the theoretical material and by helping them put together the experiments.

VOLUNTEER ACTIVITIES

Budapest Cultural Center, Budapest, Hungary

- Informatics Lecturer — Oct 2012 – May 2013
  I taught older people how to use the internet and useful websites like facebook, gmail, google and others.

TALKS & POSTERS

- NLP for ConvAI workshop @ ACL: Improving Neural Conversational Models — Aug 2019
- ACL 2019: Improving Neural Conversational Models — Jul 2019
- EEML 2019: Improving Neural Conversational Models — Jul 2019
- RAAI 2019: Improving Neural Conversational Models — Jun 2019
- Hungarian NLP Meetup: Neural Chatbots — May 2019

LANGUAGES

- Hungarian, Romanian: Native language.
- English: C1 level (TOEFL iBT: 115/120).
- French: B2 level (Advanced level high school final exam).

IT SKILLS

- Mathematica, Inventor, NI LabView, Ansys, R (studied during 1 semester)
- C/C++ (studied during 3 semesters, used in projects)
- Python, Java, Matlab (studied during 2 semesters, used in projects)
- OpenGL, TensorFlow, PyTorch, Processing, LaTex, Git (self-taught, used in projects)