Ege Ersü

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Education

The University of Edinburgh		2020- September 2021	Edinburgh, UK
Master of Science in Informatics (Cognitive Science)			
Koç University	3.42/4.00	2016-2020	Istanbul, Turkey
Bachelor of Science in Computer Engineering			
University of Sussex	4.00/4.00	Spring 2020	Brighton, UK
Erasmus+ Exchange (Informatics)			
Rice University		Fall 2018	Houston, TX
Global Exchange (Computer Science)			
American Robert College of Istanbul		2011-2016	Istanbul, Turkey
Science and Math. High School			

Skills

Experienced with Python, PyTorch, Julia, JavaScript

Worked with React, SQL, TensorFlow, Java, LISP, C, C++, AWS, GCP, Hadoop

Domain Knowledge Natural Language Processing, Deep Learning

Natural Languages English & Turkish

Work

Koc University Artificial Intelligence Laboratory

Istanbul, Turkey

RESEARCH ASSISTANT | O CODE | PAPER

June 2019 - Aug. 2019 orFlow to Julia. The

- Developed an open-source package that transfers pre-trained deep learning models from **PyTorch & TensorFlow** to **Julia**. The software reconstructs each individual layer and connects them as a computational graph which can be modified, re-trained or used for inference.
- The package is mostly used by Julia developers to import popular models for fine-tuning, without having to implement models from scratch. Other researchers at the laboratory use Julia extensively, so it helped the group save time. After the release, I have mentored two other research assistants to maintain the project.

Miletos Co.Istanbul, Turkey

MACHINE LEARNING INTERN

June. 2018 - Jul. 2018

• Worked with the R&D team to solve the OCR task of converting images of receipts into text. Experimented with various CNN architectures using **PyTorch** and reported performance metrics. Also helped the team with data labelling.

Research

DISSERTATION | CODE

Position-Aware Neural Attentive Graph Networks for Multi-hop Question Answering

The University of Edinburgh

NLP RESEARCH | O CODE | PAPER

2021

• We open-sourced the first community version of **Entity-RGCN** in **PyTorch** (De Cao et al., 2019) and used it to solve the document-level question answering dataset WikiHop. We have also reduced the entity-graph storage requirement from 1TB to 23GB, enabling the model to run on smaller devices without sacrificing accuracy.

Studying Compositional Generalization in Virtual Environments

The University of Edinburgh

2021

• Currently developing an interactive physical browser game that will be used as a virtual environment in Cognitive Science and Reinforcement Learning experiments. It is built as a web application using **React**, allowing researchers to customize the game according their own research agenda without having to modify the source code.