Ege Ersü

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Education

The University of Edinburgh, MSc in Cognitive Science - School of Informatics — 2020- — *Edinburgh, UK*

Koç University, B.Eng in Computer Engineering — 2016 - 2020 — *Istanbul, Turkey*

Specialization: Cognitive & Brain Sciences

University of Sussex, Computer Science, Visiting Undergraduate — Spring 2020 — *Brighton, UK*

Rice University, Computer Science, Visiting Undergraduate — Fall 2018 — *Houston, TX*

American Robert College of Istanbul, Science and Math, High School — 2011-2016 — *Istanbul, Turkey*

Skills

Experienced with Python, Julia, Linux

Worked with Java, LISP, C, AWS, HTML, CSS, JavaScript

ML Packages PyTorch, Knet

Natural Languages Turkish (Native), English

Work Experience

Koç University Artificial Intelligence Laboratory — *Istanbul, Turkey*

Summer Research Assistant — *June 2019 - Aug. 2019*

- Worked with Prof. Deniz Yüret to develop the software package KnetONNX (see Projects)

Miletos Co. — *Istanbul, Turkey*

Machine Learning Intern — *June. 2018 - Jul. 2018*

- Completed Stanford's CS231n: Convolutional Neural Networks for Visual Recognition.
- Developed OCR applications using PyTorch.

Projects

KnetOnnx.jl — *Koç University*

Software Package | Github — *2019 - Present*

- Knet is the Koç University deep learning framework implemented in Julia by Deniz Yüret and collaborators.
- KnetONNX is a Julia package which reads ONNX representations of pre-trained neural networks and converts them into models in Knet that are ready for inference.
- Provides functionality to easily implement, train and export models. The long-term vision is to make KnetONNX the core neural network library of Knet.

KnetNLP — *Koç University*

Software Package | Github — *2019 - Present*

- Implementation of various NLP models and utilities for the deep learning framework Knet.

Long Short-Term Memory Networks for Machine Reading — *Koç University*

Research Project for Graduate Level Deep Learning | Github — *2018*

- Implementation of a sequence level network that is inspired by the mechanisms of human language processing. It is an extension of the vanilla Long Short-Term Memory architecture, which makes use of an additional external memory tape and a hidden tape. The LSTMN also uses neural attention to model relations among tokens.
- Experiments on Sentiment Analysis and Natural Language Inference show that the model outperforms various LSTM variations.

Optimization of Pacwar Agents using Genetic Algorithms — *Rice University*

Research Project for Graduate Level Artificial Intelligence| Github — *2018*

- Experimented with different Genetic Algorithms to design the best possible gene sequence of a PacWar mite population that would defeat the members of the opposing population.