Ege Ersu

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Education

The University of Edinburgh	Distinction	2020 - 2021	*Edinburgh, UK*
Master of Science in Informatics			
Koç University		2016-2020	*Istanbul, Turkey*
Bachelor of Science in Computer Engineering			
University of Sussex		2020	*Brighton, UK*
Erasmus+ Exchange (Informatics)			
Rice University		2018	*Houston, USA*
Global Exchange (Computer Science)			

Skills

Languages	**Python**, SQL, JavaScript, Julia
Packages	PyTorch, TensorFlow, scikit-learn, Pandas
Other Tools	Tableau, Apache Spark, React.js, Streamlit, AWS
Graduate Coursework	Machine Learning & Pattern Recognition, Reinforcement Learning
	Tools & Models for Data Science, Algorithmic Game Theory
	Natural Language Understanding, Generation & Machine Translation

Research

Studying Human Compositional Generalization in Virtual Environments   *The University of Edinburgh*
 Click Here | MSc Dissertation | supervised by **Dr. Christopher G. Lucas**   *June 2021 - September 2021*

- Developed a web application for launching customizable game-based experiments and collecting behavioral data. Used it to collect more than 2000 gameplay decisions from over 200 participants. Performed EDA on the collected behavioral dataset and tested a cognitive hypothesis on human rule learning and generalization.

Position-Aware Neural Attentive Graph Networks for Question Answering   *The University of Edinburgh*
 Click Here | NLP Research | supervised by **Dr. Hakan Bilen**   *January 2021- May 2021*

- Our research group 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 further released improved versions of the model by incorporating *positional injection* and *query attention*. Our paper also includes ablation studies and specific case studies from the dataset.

Work

KUIS Artificial Intelligence Center   *June 2019 - Dec. 2019*
 Click Here | Research Assistant | Supervised by **Prof. Deniz Yuret**

- 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 the models from scratch. After release I have mentored two research assistants to maintain the project.

Miletos Co.   *June. 2018 - Aug. 2018*
 Machine Learning Intern

- 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 cleaning and labeling.