Muberra Ozmen

PhD Candidate

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Education

Jan 2019 - Ongoing — **PhD, McGill University** — **Montreal, QC**
Electrical and Computer Engineering
I am supervised by Prof. Mark Coates. My research interests focus on the introducing graph representation learning into various NLP problems. My main work in progress is developing new techniques for modelling label dependencies in conventional and extreme multi-label text classification problems by exploiting expressive power of graphs. I am also involved in RF Breast Cancer Detection Research Group where one of the goals is to develop novel machine learning techniques to detect malignancies in breast by recorded signals.

Sep 2016 - Dec 2017 — **MRes, University College London** — **London, UK**
School of Management
Project. Evolution of Collaboration Networks in the Competitive Environment of Crowdsourcing Contest Platforms
My graduation project investigates the evolution of collaboration networks at crowdsourcing contest platforms to test organizational theory based hypotheses empirically using data scraped from Kaggle.
Fully funded by UCL studentship for postgraduate work

Sep 2014 - Jun 2016 — **MS, Middle East Technical University** — **Ankara, Turkey**
Applied Mathematics
Thesis. Interactive Evolutionary Approaches to Multi-Objective Feature Selection in Machine Learning Problems
We developed a meta-heuristic (an interactive genetic algorithm) for the problem of feature selection in machine learning in which a multi-objective decision maker can direct the search of optimal (most preferred) subset by actively indicating his/her preferences during search.
CGPA. 3.43/4 – *METU Dean's Honor list*

Sep 2009 - Jun 2014 — **BS, Middle East Technical University** — **Ankara, Turkey**
Industrial Engineering
Graduation Project. System Design Project for Is Bank on Cash Management System
CGPA. 3.54/4 – *METU Dean's High Honor list*

Skills

Python	My first choice for any programming task.	●●●●●
PyTorch	My first choice to build any neural network.	●●●●●
Tensorflow	I used mostly for class projects and assignments.	●●●○○
Matlab	I am quite experienced, currently using only for BCD project.	●●●●●
R	My first choice when it comes to statistical analysis.	●●●●○

Experience

2020 - Ongoing — **McGill University** — **Montreal, QC**
Teaching Assistant
ECSE 316 - Signals and Networks

2018 - 2019 — **Segmentify** — **Istanbul, Turkey**
Data Scientist
Segmentify is an e-commerce personalization platform that helps online retailers to optimize their conversion rates by enabling them to deliver a unique shopping experience for each visitor. Within the scope of the project that I worked on, by monitoring the current progress of the literature on techniques developed for estimation of Customer Purchasing Behaviour and Lifetime Value in database marketing, we aim to provide a comprehensive, yet practical, framework for customer segmentation to be able to bring related advancements into our own practice.

2014 - 2016 — **Middle East Technical University** — **Ankara, Turkey**
Teaching and Research Assistant
IE4903 Introduction to Data Mining, IE4909 Analysis and Optimization Methods In Finance, IE361 Stochastic Models in Operations Research, IE451 Decision Analysis

Publications

2022 | 1. **Ozmen, M.**, Zhang, H., Wang, P. & Coates, M. *Multi-relation Message Passing for Multi-label Text Classification* in *Proc. IEEE Int. Conf. Acoustics, Speech and Signal Processing (ICASSP)* (2022).

2020 | 2. Kranold, L., **Ozmen, M.**, Coates, M. & Popović, M. Microwave Radar for Breast Health Monitoring: System Performance Protocol (2020).

2017 | 3. **Ozmen, M.**, Karakaya, G. & Koksalan, M. Interactive evolutionary approaches to multi-objective feature selection. *International Transactions in Operational Research* (2017).