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İdil **Sülo**

MASTER'S STUDENT IN COMPUTER SCIENCE

Christoph-Probst-Straße 16, Munich/GERMANY

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Education

Technical University of Munich (TUM)   *Munich, GERMANY*

M.Sc. IN INFORMATICS   *October, 2019 - Exp. August, 2021*

- A graduate student with an emphasis on deep learning and computer vision

Middle East Technical University (METU)   *Ankara, TURKEY*

B.Sc. IN COMPUTER ENGINEERING   *September, 2014 - June, 2019*

- Studied one year at the English Language Preparatory School of METU
- **Graduation Project:** DLEM - A project that will make deep learning networks available as an online service and greatly simplify the testing of the existing networks by the users using ONNX format.
- cGPA: 3.17/4.0

Skills

Programming Languages	Python, C/C++
Libraries, Frameworks and Tools	PyTorch, Tensorflow, NumPy, SciPy, Matplotlib, Pandas, OpenCV, Dlib, LaTeX, Git
Operating Systems	Unix/Linux, Windows
Languages	Turkish (Native), English (Advanced), German (Beginner)

Experience

Unetiq   *Munich, GERMANY*

DATA SCIENTIST (PART-TIME)   *November 11, 2019 - July 1, 2020*

- Worked on an environmental project that aims to determine rail track quality by developing neural network models based on sensor readings, and to minimize the downtime of the public rail transport with predictive maintenance.
- Worked on analyzing the costs of different projects of Linde based on several key quantities such as the plant type, country and execution period.
- Worked on an application to predict the mortality status of COVID-19 patients based on the first 24 hours of ICU stay with the data obtained from the patients in University Hospital Regensburg, Germany.

Darkblue Telecommunication Systems   *Ankara, TURKEY*

SOFTWARE DEVELOPER   *June 11, 2019 - August 1, 2019*

Worked on a research and development project for the implementation of a real-time system using Support Vector Machine (SVM) model to classify face images of the people using C++ and Dlib.

Image Lab at Middle East Technical University   *Ankara, TURKEY*

COMPUTER VISION RESEARCH INTERN   *June 25, 2018 - September 21, 2018*

Participated in a research of reducing the computational cost of Generative Adversarial Networks inspired by the MobileNet architecture with an application of the Depthwise Separable Convolution layers under the supervision of **Prof. Gokberk Cinbis**.

CITS Bilişim A.Ş. (Cloud Information Technology Services)   *Bursa, TURKEY*

SOFTWARE DEVELOPMENT INTERN   *July 3, 2017 - September 22, 2017*

Designed and implemented an algorithm to optimize the problem of cutting large sheets of metals into specific sizes, and a Web Application constructed with ASP.NET Core, MVC 6, EF Core, and Angular which lets the user to create a Travel Plan on a World Map.

Research Projects

ÇIRAK Project

PROJECT MEMBER   *February, 2019 - June, 2019*

Worked on a project on an "intelligent" robot platform that will be developed to function as an apprentice for a human worker working in a factory assembly line under the supervision of **Prof. Sinan Kalkan** and **Prof. Erol Sahin**.
- This work is supported by the **Scientific and Technological Research Council of Turkey (TÜBİTAK)** through project called "ÇIRAK: Compliant robot manipulator support for montage workers in factories" (project no 117E002).

Energy Efficient Smart Buildings Project

PROJECT MEMBER   *October, 2018 - June, 2019*

Worked on a project to apply deep learning methods on the energy consumption data obtained from the buildings that reside in the City University of New York (CUNY) campuses under the supervision of **Prof. Theodore Brown**.
- This work is supported by the **Scientific and Technological Research Council of Turkey (TÜBİTAK)** through the scope of the **scholarship programme 2209/A University Students Research Project Grant** (project no 1919B011803857) which I am the recipient of.

Publications

Turkey Robotics Conference (TORK 2019)   *Istanbul, TURKEY*

AUTHOR   *June 26-28, 2019*

F. C. Kurnaz, B. Hocaoglu, K. M. Yilmaz, **I. Sulo**, and S. Kalkan. ALET: Gerçek Ortamlarda Aletlerin Tespiti için Veri Kümesi, Baz Sonuçlar ve Bir Uygulama, 2019.

The International Conference on Deep Learning and Machine Learning in Emerging Applications (DEEP-ML 2019)   *Istanbul, TURKEY*

AUTHOR   *August 26-28, 2019*

I. Sulo, S. R. Keskin, G. Dogan, and T. Brown. Energy Efficient Smart Buildings: LSTM Neural Networks for Time Series Prediction, 2019.

Cocurricular Activity

Fundamentals of Deep Learning for Computer Vision   *NVIDIA*

PARTICIPANT   *September, 2018 - Present*

Participated in a one day hands-on workshop by NVIDIA Deep Learning Institute that teaches the basics of deep learning by training and deploying neural networks.
- Can be verified at: **https://courses.nvidia.com/certificates/942b5f741e664e47aee93c3e6c14d030**

Extracurricular Activity

Coding Woman

BLOGGER   *January, 2018 - Present*

Sharing anecdotes from my life as a woman studying computer science by explaining some technical concepts, and writing articles supporting women in technology in order to break the stereotypes in the minds of people related to this field on a blog named Coding Woman.
- The blog can be found on the following link: **www.codingwoman.com**

Django Girls

CO-ORGANIZER AND MENTOR   *October, 2018 - June, 2019*

Organized one-day programming workshops together with the members of Django Girls Ankara in order to bring more amazing women into the world of technology and increase the diversity in the Django community.