idil **Sülo**

MASTER'S STUDENT IN COMPUTER SCIENCE

Christoph-Probst-Straße 8, Munich/GERMANY

☐ (+49) 176 65835994 | ✉ idilsulo@gmail.com | 🏠 idilsulo.github.io | 🔗 idilsulo | in idilsulo/en

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.
- Analyzed the costs of different projects of Linde based on several key quantities such as the plant type, country and execution period.
- Worked on the prediction of 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.

KOVAN Robotics Research Lab, Middle East Technical University   *Ankara, TURKEY*

UNDERGRADUATE STUDENT RESEARCHER   *February, 2019 - June, 2019*

- Worked on a project on an "intelligent" robot platform that is developed to function as an apprentice for the human workers working in factory assembly lines 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).
- A paper demonstrating this work is presented at **Turkey Robotics Conference (TORK 2019)** in rapid communication format. Further research on this work is still being undertaken.

City University of New York   *New York, NY, United States*

Undergraduate Student Researcher (Remote)   *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.
- This work had been personally presented by me at **The International Conference on Deep Learning and Machine Learning in Emerging Applications (DEEP-ML 2019)**.

ImageLab, 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.
- Created 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.

Publications

- F. C. Kurnaz, B. Hocaoglu, K. M. Yilmaz, **I. Sulo**, and S. Kalkan, **"ALET (Automated Labeling of Equipment and Tools): A Dataset, a Baseline and a Usecase for Tool Detection in the Wild"**, *arxiv preprint*, 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"**, in Turkey Robotics Conference (TORK), June 2019.
- **I. Sulo**, S. R. Keskin, G. Dogan, and T. Brown, **"Energy Efficient Smart Buildings: LSTM Neural Networks for Time Series Prediction"**, in The International Conference on Deep Learning and Machine Learning in Emerging Applications (DEEP-ML), August 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. The certificate of this workshop 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.