Fikret Efe Doğanay

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Education

Bilkent University — Ankara, Turkey
Master of Science in Computer Engineering — *Aug. 2020 – Present*

- Departmental scholarship. (tuition vaiwer)
- Concentration in deep learning and computer vision.

Istanbul Bilgi University — Istanbul, Turkey
Bachelor of Science in Computer Engineering — *Sep. 2015 – June 2020*

- OSYM comprehensive scholarship. (tuition vaiwer)
- cGPA: 3.74/4.00
- Ranked 1st among 51 graduates.

Experience

Avionics System Engineer — Aug. 2020 – Present
Aselsan — *Ankara, Turkey*

- Responsible for developing simulation software for several military avionic devices.
- Mainly coding in C# and Python for serial communication interfaces.
- Creating, updating and managing avionics systems requirements.
- Built a LTE communication system for real-time video transmission between a helicopter and ground station.

Software Engineer Part-time — Dec. 2019 – June 2020
Aselsan — *Ankara, Turkey*

- Worked on computer vision and robotic implementations of UAVs.
- Extended OpenCV's built-in object detection algorithms with custom deep learning based detectors.
- Integrated Mobilnet-SSD-v2 into Gazebo to simulate the object tracking performance.

Projects

Age Estimation from Grayscale Facial Images | *Python, TensorFlow* — May. 2021 – May 2021

- Implemented a convolutional neural network architecture in TensorFlow to predict the age of a person from grayscale facial images.

Segmentation of the COVID-19 Infections from CT Lung Scans | *Python, PyTorch* — Feb. 2021 – May. 2021

- Carried out a comparative study on segmenting infectious COVID-19 parts of lung scans with U-Net, PSP-Net and DeepLabv3+ architectures.
- Performed training, testing, data augmentation, and hyperparameter optimization for three different models.

Twitter Analyzer | *Python, Flask, JavaScript* — Mar. 2020 – June 2020

- Developed a machine learning based online platform that lets users explore public Twitter profiles.
- The platform gives real-time profile insights such as most used hashtags, keywords and mentions, tweet categorization, sentiment analysis, and similarity network between selected profiles.

Sentiment analysis on eksisozluk | *Python, Scikit-Learn, NumPy, Pandas* — Oct. 2018 – Dec. 2018

- Collected data that consists of 840 entries from eksisozluk (famous Turkish website built upon user contribution) via web scraping tools. Manually labeled user entries' sentiment as very negative, negative, neutral/objective, positive, and very positive. Used text processing, natural language processing, and TF-IDF for the organization of the data. Achieved an accuracy score of 63% on predicting the sentiment of an entry with the k-NN algorithm in Python.

Community detection | *Java* — Apr. 2018 – May. 2018

- Applied social network modelling to represent the dataset of the Babel movie. Used a variety of graph algorithms such as Dijkstra's shortest path algorithm, depth-first search algorithm, and Girvan-Newman's edge betweenness centrality algorithm. As a result, six different communities were detected.

Technical Skills

Languages: Java, Python, C++, C, SQL
Frameworks Libraries: PyTorch, TensorFlow, OpenCV, NumPy
Developer Tools: Git, Docker, Jupyter, Conda

Test Scores

ALES : 96/100
TOEFL iBT: 102/120