Mustafa Akur

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EDUCATION

• Boğaziçi University

Bachelor of Engineering in Electrical and Electronics; GPA: 3.63

İstanbul, Turkey

Sept. 2014 - Jun. 2019

• Konya Meram Science High School

Stem Student; GPA: 3.80 (95.0/100.0)

Konya, Turkey

Sept. 2010 - Jun. 2014

EXPERIENCE

• Synnada

Ankara, Turkey

Machine Learning | Algorithms Engineer

May 2022 - Today

o R& D Engineer: Working on building streaming query execution engine to run sql queries on unbounded data

• Aselsan

Ankara, Turkey

Software Design Engineer

Apr 2019 - May 2022

- **R& D Engineer**: Developed algorithms (in C++) and deep learning models as part of military threat classification, observance product that works in real-time using Distributed Acoustic Sensing technology to monitor locations along standard fiber optic cables.
- Selective Group Acknowledgement: Implemented a communication protocol robust to losses to send large data through small bandwidth in noisy environments.

• Aselsan

Ankara, Turkey

Software Internship

July 2018 - Sept 2018

• State of Charge Estimation: Written state of charge estimation algorithm in MATLAB using extended Kalman Filter algorithm as part of the battery management systems for wind turbines.

• Tübitak Space Technologies Research Institute

Ankara, Turkey

Software Internship

June 2018 - July 2018

• Audio Source Separation: Examined the performance of an audio source separation algorithm, written a library to manipulate audio files in Python, and incorporated that library with the already written audio source separation algorithm

• Boğaziçi University

İstanbul, Turkey

Teaching Assistant

Feb 2017 - June 2017

- o Introduction to Digital Systems: Assisted the other assistants of the class, at the laboratories
- Tübitak Bilgem Advanced Technologies Research Institute

Ankara, Turkey

Software Internship

July 2016 - Aug 2016

• **KLT Tracker**: It is an algorithm to track interest points in a video,32 bit version of it for infrared videos was written during the internship.

• Fatih Sultan Mehmet High School

İstanbul, Turkey

Mathematics Teacher

Feb 2015 - June 2015

• University Preparation: Mathematics classes are given to the Foreign students who are preparing for the Turkish University Entrance Exam.

Publications

- "Vehicle Tracking in Land Roads and Railways Using DAS Systems", Jan 2021
- "Fiber Optic Cable Termination and Signal Loss Detection in DAS Systems", May 2022

Projects

- Simple Deep Learning Library: A library written in C++ for training simple neural network architectures
- Audio Fingerprint: A program to match an unknown song with the songs in database (like Shazam).
- Taboo Game: Taboo game in 2 languages using Python (Turkish and English)
- Retail Product Features: Feature visualization of the various retail products are done using convolutional neural networks in tensorflow

Programming Skills

- Languages: RUST, C++, Python, MATLAB, C, SQL
- Technologies: Pytorch, LibTorch, Tensorflow, Keras, ONNX Runtime, Git, OpenCV, Apache Flink

LANGUAGES

• Turkish: Mother Tongue English: Advanced French: Beginner

EXTRACURRICULAR

• Hiking: Member of the Hiking Istanbul Group

Table Tennis: One of my long time passions

Annexes

- Github: https://github.com/akurmustafa/ Linke
 - **Linkedin:** https://www.linkedin.com/in/akurmustafa/
- Github (for work): https://github.com/mustafasrepo/