Sahin Olut

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Objective

Forth year student in Istanbul Technical University with deep focus on machine learning. My short term goal is to enhance my grasp on fundamental topics of computer science for building tools to humanity. However I focus on machine learning, I also have interest on various topics in computer science like functional programming, analysis and development of algorithms.

Education

- **Istanbul Technical University** — Istanbul, Turkey
  Bachelor of Science in Computer Engineering and Science; GPA: 3.20 — *Sep. 2014 – June 2019*
- **Istanbul Technical University** — Istanbul, Turkey
  Minor in Applied Physics — *Sep. 2017*

Experience

- **ITU Vision Lab.** — Istanbul, Turkey
  Undergraduate Research Member — *Aug. 2017 - Present*
  - Deep Learning research under guidance of Prof. Gozde Unal and her PhD students. Generative models in special.(GANs, Autoencoders etc.)
  - Visualizing and understanding GAN architectures.
  - Generating Brain Modalities with GANs. – *Ongoing project*
- **Virasoft** — Istanbul, Turkey
  Software Engineering Intern — *June 2017 - Aug. 2017*
  - Virasoft is a startup founded in 2015 September, focuses on medical imaging and digital pathology. I was the part of software engineering team, we were implementing the algorithms created by image processing team.
  - **OpenCV:** Implemented some medical versions of known image processing algorithms in OpenCV.
  - **ViraPath:** ViraPath is the end product for doctors. I ported some parts of ViraPath to C++ from Java and added my algorithms written in OpenCV.
  - **Machine Learning:** For better diagnosis results, I tried to implement some ML techniques(Neural nets and SVM) to product. It increased the accuracy of results by 2.5% (from 69%)
  - **Dev Environment:** For C++ Qt-Creator is used. For feeding the ML architecture, QuPath is used for feature extraction. ML framework used was SKLearn.
- **ITU Computer Networks Lab.** — Istanbul, Turkey
  Volunteer — *June 2016 - Aug. 2016*
  - Done research about IoT Networks and Security, designed a IoT based social media project with my friends. While developing the product, Prof. Sema Oktug and RA Ahmet Aris supervised our team. Unfortunately we could not be able to finish due to lacks in resources. In addition, I worked with traffic simulators in some part of the research.

Skills

- **Computer Science**: Algorithms, Deep Learning, Computer Architecture, Signal Processing
- **Programming**: C, C++, Python, JavaScript, SQL, Haskell
- **Environments and Frameworks**: PyTorch, GNU/Linux, React.js, OpenCV, Git, LaTeX

Projects

- **ITUnder** Peer finder app for study groups. React.js in front-end, Flask+Node.js in back-end.
- **FPS Enhancing** Increasing the FPS rate of old films by using deep learning techniques.

Hobbies & Activities

- **Inzva** A non-profit hacker space in Turkey. We regularly conduct meet-ups, I am assistant in deep learning meet-ups.
- I have been playing bass for 3 years, done many gigs with my band. Also member of the board at ITU Music Club.
- Active member of ITU ACM Student Chapter.