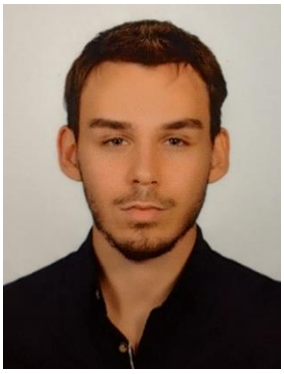
Egemen Gülpınar



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SUMMARY

I am a self-motivated and 'quite' enthusiastic software engineer. Except the department that I am studying, there are many fields that I could developed myself. I am very interested in deep learning, computer vision and data science. Also, I like to research state of art methods, complex systems, following latest techniques, creating perspective in something new or to make projects. My motto is always “being different”.

EDUCATION INFORMATION

2021 October 2022 February	Bradford University Department of Computer Science (Erasmus Exchange Student, GPA: 4.00) **/ *Bradford/UNITED KINGDOM***
2017 September 2021 May	Mersin University Computer Engineering (English, GPA: 3.40, ex. +23 ECTS) **/ *Mersin/TURKEY***
2013 September 2017 May	Hacı Sabancı High School **/ *Mersin/TURKEY***
2003 September 2007 May	Ludwig Uhland Schule, Wendlingen am Neckar **/ *Stuttgart/GERMANY***

WORK EXPERINCE

2021 September (Ongoing)

LIVAD Technologies, ***Full-Time ML-Engineer, R&D Crew Lead | Istanbul/TURKEY (Remote)***

Building AI and Automated systems for company by mainly computer vision and deep learning developing areas, using most effective ways and state of art methods.

- *LIVAD Studio Windows application Lead. Creating all structure and developed start-to-end.*
- *Recognition specific object(s) animation in video through matching with Pixel-by-Pixel and using SIFT technique. Besides, creating custom models for detecting specific game moments.*
- *Real-Time Offline Speech Recognition (NLP) & Toxic Word Classifying System*
- *Creating complex system that includes multi-process algorithms, they connecting each other simultaneously. That allows to LIVAD applications can running on local machine.*

2021 August
2021 September

The Scientific and Technological Research Council of Turkey (TUBITAK) Space Technologies Research Institute, ***Artificial Intelligence Intern | Ankara/TURKEY***

Researched Image Super-Resolution Using Deep Convolutional Networks and developed different methods and optimizations for SRCNN methodology.

2021 June
2021 August

BAYKAR Technologies, ***Artificial Intelligence Intern | (Istanbul/TURKEY)***

Researched GNSS Systems, developed and animated China’s satellite "BeiDou” position calculation.

2020 July
2021 January

SFM Software, ***Software Developer | METU Teknokent, Ankara/TURKEY (Volunteer Intern/Remote)***

Developed for a company as business dashboard using Django web programming.

2020 June
2021 January

Asır Digital, *HPE Course Member* **| Istanbul/TURKEY (Volunteer Intern/Remote)**

COMPUTER SKILLS

▪ **Deep Learning & Advanced Methods**	*Keras, Tensorflow, PyTorch, ONNX*
▪ **Computer Vision and Image Processing**	*OpenCV, YOLO(v5/v8), MATLAB, C/C++ & Python ML Apps, Nvidia*
▪ **Data Science, Visualization & Statistics**	*SciPy, Matplotlib, scikit-learn, Seaborn, Pandas, Numpy*
▪ **Web Programming & Data Mining**	*FastAPI, Django, Flask, Scrapy, Selenium*
▪ **Other Interests & Usage**	*VB Script, BAT Script, Adobe(AE,PR,PS,AI), InnoSetup, Ardunio, ffmpeg, Cron Jobs, Oracle Cloud, AWS, Multiprocess Systems, System Design, Blockchain Tech., Quantum Computation(Qiskit), Embedded Systems*

RESEARCH AND PROJECT EXPERIENCE

- **Real-Time Offline Speech Recognition and Toxic Comment Classifying System for OBS Studio**
  Offline (Local) detect voice transcript and classify toxic words with tiny resource consumption for streamers which users of Windows OS. Whole project is compressed in one setup file that allows easy-to-install for everyone.
- **Bradford University Cyber Security Research Project; "Ransomware Attacks"**
  Gulpinar, Hakki Egemen. (2022). Ransomware Attacks: Challenges and Defence. DOI: 10.5281/zenodo.6651413
- **Recognition Specific Object(s) & Animation in Video through Matching Pixel & Using SIFT Technique**
  Created for matching all input video pixels in the streaming video with calculating every frame attently using with OpenCV, according to find input video timestamps. This project developed for all-automated recognition system.
- **Recognition and Detection/Conversion Object(s) with Custom Model on YOLOv5/v8** ***(+OCR)***
  Recognition object(s) or animations in video creating with custom object detection algorithm through YOLOv5/v8 and OCR.
- **Image Super-Resolution Using Deep Convolutional Networks Research (SRCNN)**
  Deep convolutional neural network model takes the low-resolution image as the input and outputs the high-resolution one. In that project has performed different methods and optimizations for SRCNN methodology.
- **GNSS Systems Research and Satellite Position Calculation**
  GNSS Systems and China's Satellite System BeiDou research, position calculation and mapping with reading and processing ephemeris data. In this project found significant details for BeiDou Satellite System working principle.
- **Software, Design and Project Presentation for Gesture Control Robot**
  Mobile robot that communicates wirelessly with hand movements created with Arduino
- **Vehicle Detection with Image Processing**
  Vehicle tracking, detection counting with OpenCV and image processing techniques over video image / or live broadcast.
- **Personalized Web Site and Dashboard**
  A functional website where a company provides control panel and data entry, view and organize data in table. *(used Django)*

FOREIGN LANGUAGE

- English (Upper Intermediate – B2), German (Anfänger – A2)

CERTIFICATE & SEMINARS INFORMATION

- 2022 — BTK Academy "Introduction to Deep Learning with Keras"
- 2021 — BTK Academy "Python & Tensorflow for Data Science"
- 2021 — QWorld "Quantum Computing & Programming using Bronze – Qiskit"
- 2021 — BTK Academy "Machine Learning with Python"
- 2021 — Mathworks MATLAB "Deep Learning Onramp – Image Processing Onramp"
- 2020 — Boğaziçi University DataCamp 20' ML/Reinforcement Learning/Kaggle Workshops
- 2019 — Boğaziçi University Seminar "Entrepreneurship and Leadership"

FAVORITE REFERENCE BOOKS AND ACADEMIC RESEARCH PAPERS

[1] C. Dong, C. C. Loy, K. He ve X. Tang, «Image Super-Resolution Using Deep Convolutional Networks. »

[2] Chollet, F. (2018). Deep Learning with Python. Shelter Island (New York, Estados Unidos): Manning, Cop.

[3] Gonzalez, R.C. and Woods, R.E. (2018). Digital image processing. New York, Ny: Pearson.

[4] Müller, A.C. and Guido, S. (2017). Introduction to machine learning with Python : a guide for data scientists. O'reilly

[5] Andrew Ng Neural Networks and Deep Learning Course Summary Notes Made by Mahmoud Badry

[6] Aurélien Géron (2019). Hands-on machine learning with Scikit-Learn and TensorFlow concepts, tools, and techniques to build intelligent systems. O'Reilly Media, Inc.

[7] Kemal Oflazer and Murat Saraçlar (2018). Turkish Natural Language Processing. Cham Springer International Publishing.

REFERENCES

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