Egemen Gulpinar

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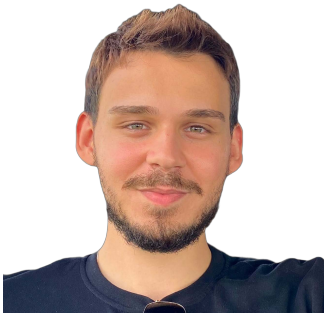

SUMMARY

I'm an AI Engineer, Backend Developer, and R&D Team Lead with hands-on experience in designing, managing, and maintaining AI projects. I've led multiple AI projects, built real-time detection systems and complex systems with multiple processes, and set up AI/ML workflows. In addition, I've built automation systems and backend services, I also have experience in creating desktop, cloud, and web apps. In all my work, I'm always looking for ways to include the latest advancements in AI. Beyond my technical roles, I'm an Indie Hacker who loves to think differently and find unique solutions. My belief is that continuous learning is key in the fast-changing world of AI, I like to combine what I've learnt with the ideas I've in my mind. My motto is always "be different".

EDUCATION INFORMATION

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

WORK EXPERINCE

(Ongoing)
2021 September

Istanbul/TURKEY (Hybrid)

LIVAD Technologies, ***Full-Time AI Engineer, Backend Developer, R&D Crew Lead***

Creating project structures, designs, plans & development. Building AI and Automated systems for company by mainly computer vision, AR, neural language processing and deep learning developing areas, using most effective ways and state of art methods. Working with Cloud based systems and integration projects.

- *LIVAD Studio Windows application Lead. Creating all structure and start-to-end development process.*
- *Kubernetes microservice that includes recognition specific object(s) animation in video through computer vision techniques.*
- *Custom deep learning models for detecting specific in-game moments.* ***(IAB 2023 In-Game Gold Award, Brandverse 2023 Silver Award)***
- *Unreal Engine 5 realtime meta human lip-sync & backend communication system.*
- *Open Broadcast Studio(OBS) Snap AR WebSDK Kit development (livestream AR integration).*
- *Kubernetes microservice that includes lightweight speech recognition for given video input.*
- *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 & cloud.*

2021 September
2021 August

Ankara/TURKEY (on-site)

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

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

- *Sparse Coding Based Super Resolution methods using with Deep Neural Network*
- *Convolutional Neural Networks for Super Resolution*

2021 August
2021 June

Istanbul/TURKEY (on-site)

BAYKAR Technologies, ***Artificial Intelligence Intern***

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

- *Satellite Mapping on World Map*
- *RINEX Data Converting, Parsing and Reading. Created special library for BeiDou RINEX data.*
- *Satellite labelling and matching with correct one.*

2021 January
2020 July

Volunteer Intern (Remote)

METU Teknokent SFM Software Company, ***Software Developer***

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

2021 January
2020 June

Volunteer Intern (Remote)

Asır Digital, ***HPE Course Member***

Hawlett Packard Enterprise system course member, learning HPE systems and cloud infrastructure

COMPUTER SKILLS

▪ **Deep Learning, NLP & Advanced Methods**	*Keras, Tensorflow, PyTorch, ONNX, C++ accerelation, VOSK, Kaldi*
▪ **Computer Vision and Image Processing**	*OpenCV, Satellite Mapping, YOLO(v5/v8/NAS), Object Tracking, OCR*
▪ **Data Science, Visualization & Statistics**	SciPy, MatplotLib, scikit-learn, Seaborn, Pandas, Numpy, MATLAB
▪ **API, Web & Data Mining**	*FastAPI, Docker, Django, Django REST, Flask, Scrapy, Selenium*
▪ **Other Interests & Usage**	*VB Script, BAT Script, Python C++ Wrapping, Generative Art, InnoSetup, Prompt Engineering, Ardunio, ffmpeg, Cron Jobs, Multiprocess Systems, System Design, Quantum Computation(Qiskit), Embedded Systems, Adobe(AE,PR,PS)*
▪ **CI/CD & Cloud**	*Jenkins, GitHub Actions, Google Cloud, Oracle Cloud, AWS*

RESEARCH AND INDIVIDUAL PROJECT EXPERIENCE

- **Web-based SaaS Product Combining Law and GPT Capability *(in progress)***
  A web-based SaaS solution that combines law and GPT technologies and offers its users a virtual legal counselling and acceleration of business processes
- **Bradford University Cyber Security Research Paper Project; "Ransomware Attacks"**
  Gulpinar, Hakki Egemen. (2022). Ransomware Attacks: Challenges and Defence. DOI: 10.5281/zenodo.6651413
- **AI Profile Picture Generator Web-based SaaS Product with Multiple Styling Options *(in progress)***
- **Social Media Auto Post & Content Creation *(in progress)***
- **Web-based Mobile App that Provide Ease in the Field of Beauty, Care and Hairdressing *(in progress)***
- **Web-based SaaS Product that Synthesises Voice and Auto Dubs in Multi Languages with Same Voice**
- **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.
- **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 – A1)

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.