

M. KEREM AVCI

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EDUCATION

Master of Science

Dep. of **Computer Engineering**,
Bogazici University
(2020 Sep - 2023 Sep)

Bachelor of Science

Dep. of **Electrical & Electronics**
Engineering, Bogazici University
(2015 Sep - 2020 Jun)

Ranked 22nd in National University Exam

SKILLS

Industry Knowledge

Deep Learning, Machine Learning,
Computer Vision, Natural Language
Processing, Reinforcement Learning,
Generative AI, Back-end
Development, Dev-Ops, ML-Ops,
Signal Processing, Wireless
Communications

Programming Languages

Python, C++, C#, MATLAB, Golang,
JavaScript, SQL

Technologies

Docker, PyTorch, TensorFlow,
OpenCV, scikit-learn, XGBoost,
FastAPI, Django, MongoDB Atlas,
PostgreSQL, AWS, Google Cloud
Platform, GNU Radio

Machine Learning enthusiast. Computer Scientist. Experienced in developing scalable software systems and AI-driven applications, and working with cloud technologies. Committed to driving innovation and creating high-tech solutions that address real-world problems. Built two products from scratch, for one of which the team has applied to FDA approval.

EXPERIENCE

Head of Technology at **Vitamu**

2022 Mar - present

- Founded technology team and managed 10 engineers
- Built MLOps pipeline and deployed it on AWS and Google Cloud Platform
- Trained Computer Vision models and integrated them into a whole product
- Developed an API for the AI web application served on Google Cloud Platform

Co-founder & Head of Technology at **Maynard Vision**

2023 Sep - 2024 Sep

- Led a team of 5 engineers and collaborated with clients' IT teams
- Set up an autonomous testing pipeline for developing watermark algorithms
- Performed a POC on object-based watermarking utilizing AI

Research Assistant at **Dep. of Computer Engineering, Bogazici University**

2020 Feb - 2023 Sep

- Led a research project and supervised 8 BSc students
- Designed a testbed for experiments recording drone flights with passive RF, audio and optical sensors
- Created a multimodal drone detection dataset and trained DL models on it
- Proposed a novel receiver topology in Molecular Communications

Intern Engineer at **General Mobile**

2019 Aug - 2019 Sep

- Built a management tool for R&D inventory

Intern Computer Vision Engineer at **Argenit**

2018 Aug - 2018 Sep

- Developed an algorithm for alignment of microscope images

VOLUNTEERING

Instructor and Event Designer at **inzva**

2021 Oct - present

- Organized Kaggle challenges
- Served as instructor in Deep Learning study groups

SELECTED PROJECTS

- Data Analysis on **Turkish Electoral Data**
- Extension on Python Implementation of **DICOM Networking** Protocols
- System for Localizing Drone Signals and Remote Control Units (**CONNECT**)
- High Speed **Novel View Synthesis** via Unsynchronized Videos
- **Aggregate Electricity Consumption** for Hybrid Customer Models and Different Pricing Policies

RESEARCH PUBLICATIONS

- Multiple **transmitter localization** via single receiver in 3-D molecular communication via diffusion, 2021
O. Yetimoglu, M. K. Avci, B. C. Akdeniz, H. B. Yilmaz, A. E. Pusane, T. Tugcu