Ata Korkusuz

M.Sc. Computer Engineer

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Capelle aan den IJssel, South Holland, Netherlands

I am an easy-going engineer specialising in machine learning and artificial intelligence. I am honed in software development and have strong foundations in hardware-aware design. I am well-versed in interdisciplinary applications of AI and have academic and industrial experience in multiple sub-branches of ML. I am eager for a challenge in a role that offers opportunities for growth as an ML/AI engineer.

Education

09/2022 - 09/2024 **Master of Science in Computer Engineering**
Delft University of Technology | *Delft, The Netherlands*
- GPA: 7.6 in Dutch Scale (3.3 in 4.0 scale)
- Thesis with industry titled “Interactive Reinforcement Learning for Adaptive Thermal Comfort”

09/2018 - 06/2022 **Bachelor of Science in Electrical and Electronics Engineering**
İhsan Doğramacı Bilkent University | *Ankara, Turkey*
- GPA: 3.25 on a 4.0 scale
- Thesis with industry titled “Smart Home System Using BLE Mesh Network”

Minor in Communication and Design
- GPA: 3.68 on a 4.0 scale

09/2014 - 06/2018 **Turkish High School Diploma**
TED Ankara Private High School | *Ankara, Turkey*
- GPA: 89.8 on a 100 scale

International Baccalaureate (IB) Diploma
- Final grade: 35 out of 45

Experience

06/2021 - 09/2021 **Embedded Software Long-Term Summer Intern**
Borda Technology | *Istanbul, Turkey*
- Developed an IoT project for smart office capacity and reservation monitoring.
- Worked with Bluetooth Low Energy (BLE) and MQTT technologies.
- Designed desk labels with nRF52 chips and ESP32 label controllers.

06/2020 - 08/2020 **Artificial Intelligence Project Long-Term Summer Intern**
SmartAlpha AI | *Ankara, Turkey*
- Worked on AI projects in the healthcare field with image processing and computer vision in Python.
- Programmed an algorithm to detect the camera movement to stabilise regions of interest in real time.
- Utilised PyTorch and OpenCV on X-ray, MRI and Ultrasound imaging for nerve block identification and disease diagnosis.

Projects

RL Thermal Comfort | *Python, Energyplus, stablebaselines3*
- Master’s thesis conducted in collaboration with Physee(NextSense) to create a reinforcement learning model that controls the HVAC for thermal comfort.
- Invented a human-in-the-loop model to infer different individual preferences from environmental interactions.
- Achieved 88% thermal satisfaction with a PMV value between [-1,1].

BLE Mesh Locator | *C/C++, Esp32, MQTT, Python*
- Bachelor’s thesis completed in collaboration with Karel to develop a BLE mesh network for a noncentralised communication architecture.
- Accomplished location tracking through triangulation and signal strength with less than 1.0m error.
- Utilised Bluetooth 5.0 for the gateway and node units with the plug-and-play ability, tested with up to 16 nodes.

Extra-Curriculars

Head of Production & Radio Production Instructor
Radio Bilkent | *Ankara, Turkey*

Hard Skills

Languages: Python, C/C++, Rust, SQL, VHDL, C#
Frameworks: PyTorch, TensorFlow, rllib, Gym
Developer Tools: Git, VS Code, Visual Studio, Docker
Libraries: pandas, NumPy, Matplotlib, PyQt, OpenCV

Certificates

- IELTS Academic 8.0 - English Qualification
- Goethe Zertificat B1 - German Qualification
- Honours Student - Bilkent University Graduation

Languages

- English - Advanced
- Turkish - Native
- German - Intermediate
- Dutch - Beginner

Soft Skills

- Good active listener
- Quick learner
- Teamwork
- Self-motivated