BERK ALI CAM

CONTACT

+49 157 3523 7921

berk.ali.cam6@gmail.com

bergalii.netlify.app

Hamburg, Germany

SKILLS

- Implementation of computer vision tasks using frameworks like Pytorch, Tensorflow, and Transformers
- Implementation of deep learning techniques in image based Generative AI field
- Deployment and maintenance of ML applications using technologies like Docker and various AWS services
- Employment of DevOps with Github Actions
- Full-stack web development:
  - Front-end: HTML & CSS , Javascript, React
  - Back-end: PHP, MySQL, Flask
- Robot manipulation & perception with ROS

LANGUAGES

English

Turkish

German

EDUCATION

Msc. Mechatronics *2022 - 2025*
Hamburg University of Technology | Hamburg

Bsc. Mechanical Engineering *2015 - 2021*
Dokuz Eylul University | Izmir

Bsc. Mechanical Engineering *2019 - 2020*
Duisburg - Essen University | Duisburg (Erasmus Exchange Programme)

CERTIFICATES

TUHH Fishing For Experience Certificate of Participation | 2023

Student Conference of Mechatronics Certificate of Attendance | 2021

WORK EXPERIENCE

Working Student (Machine Learning Engineer)

toern | Hamburg ***Nov 2023 - Jul 2025***

- Data collection, training and deployment of a Faster Region-based Convolutional Neural Network , specialized in detecting defects on clothing items
- Collecting data by web scraping
- Training & evaluation of the model using Pytorch
- Deployment of the model to the web with numerous AWS technologies (Lambda, ECR, ECS, EC2, Batch)
- Designing & implementing an UI with React for the front-end
- Carrying out various AWS & React related tasks

Web Developer

WiseSoft | Izmir ***Jan 2022 - Apr 2022***

- Front & back-end software development for e-commerce website building platform,
- Providing more functionality to the UI and to it's design, mainly using vanilla HTML&CSS , Javascript and PHP.

Intern (Mechanical Engineer)

Janoschka | Izmir ***Apr 2021 - May 2021***

- Learnt about the manufacturing processes of printing cylinders
- Learnt about the details of how a CNC machine works
- Learnt about the problems encountered during manufacturing and how to solve them

PROJECTS

Project Work - Hamburg University of Technology| 2024

- Developed a system to generate physical paintings from music input using machine learning methods
- Trained a Conditional Generative Adversarial Network (CGAN) model with PyTorch to create emotion-based digital paintings
- Integrated Essentia.js library for music mood detection and transformed digital paintings into 2D points for robotic drawing
- Built a web application with React (front-end) and Flask (back-end) to provide an interactive platform for users

TUHH Fishing for Experience Programme - toern | 2023

- Developed a machine learning model to classify clothing items based on condition (e.g., clean, dirty)
- Built a convolutional neural network (CNN) from scratch using TensorFlow and Keras for image classification
- Deployed the model to the web using TensorFlow.js for real-time classification

Bachelor's Thesis - Dokuz Eylul University | 2021

- Integrated sonars & thrusters to an underwater robot on the software side, with ROS framework
- Wrote a simple algorithm for autonomous manipulation of the robot