Baran Deniz Korkmaz

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EDUCATION

Technical University of Munich   **Munich, Germany**
M.Sc. Computer Science - Current GPA: 1.5 (in the German grading system)   *April 2021 - Present*
- **Fields of Specialization:** Machine Learning and Analytics, Computer Graphics and Vision, Software Engineering

Boğaziçi University   **Istanbul, Turkey**
B.Sc. Computer Engineering - GPA: 3.22/4.0   *September 2016 - March 2021*
- **Thesis:** DeepFake Detection
- **Placement:** Ranked 709th among 2 million students in National University Exam.

EXPERIENCE

Infineon Technologies   **Munich, Germany**
DevOps Engineer - Working Student   *May 2023 - Present*
- Containerization of software artifacts used in chip testing by Docker.
- Development of CI/CD pipeline for the automation of chip testing using Jenkins.

Huawei Technologies   **Munich, Germany**
ML Engineer - Working Student   *November 2022 - April 2023*
- Development of a data pruning technique for domain generalization in person Re-ID.

Huawei Technologies   **Munich, Germany**
Software Engineer - Working Student   *September 2021 - October 2022*
- Development of SPAD core emulation software in Python.
- Designing and implementing unit tests for the simulation verification.

Analythinx   **Istanbul, Turkey**
Data Scientist - Intern   *July 2020 - September 2020*
- Implementation of CNN by applying transfer learning in Python using TensorFlow for image classification.

Pointr: The Deep Location Company   **Istanbul, Turkey**
Software Engineer - Intern   *January 2020 - February 2020*
- Maintenance of backend system in Python using Flask API which provides endpoints for location prediction system.
- Implementation of behavior-driven mobile test scenarios in Java using Appium, Gherkin, and Cucumber.
- Implementation of introductory mobile applications for iOS in Swift.

SAS Institute   **Istanbul, Turkey**
Data Scientist - Intern   *January 2019 - February 2019 & June 2019 - August 2019*
- Development of a model for internal rate-based credit risk analysis for Ziraat Bank, the largest Turkish public bank.

PROJECTS

Undergraduate Projects   **Istanbul, Turkey**
Boğaziçi University   *September 2016 - March 2021*
- Main personal GitHub repository that contains my curricular undergraduate projects at Boğaziçi University.

Route-Planner Web Application   **Munich, Germany**
Forsailors   *October 2022 - March 2023*
- Web application development that enables sailors to plan their routes via an integrated map which was implemented using MapBox.
- The technology stack of the project comprises of ReactJS and MongoDB.
- Currently hosted on: https://route-planner-forsailors.vercel.app/

ASE Delivery System   **Munich, Germany**
Technical University of Munich   *October 2022 - February 2022*
- Development of a basic delivery system that enables the basic functionalities of modern delivery services.
- The technology stack of the project comprises of React, Python (Front-End Hardware), Spring with Java, and MongoDB.
- Project Repository

3D-R2N2: 3D Recurrent Reconstruction Neural Network   **Munich, Germany**
Technical University of Munich   *June 2022 - July 2022*
- Re-implementation of 3D object reconstruction method using PyTorch Lightning.
- Project Repository

Practical Course (Praktikum): Large-Scale Machine Learning   **Munich, Germany**
Technical University of Munich   *April 2022 - July 2022*

- Development of ML model that predicts the power consumption of a standard neural network in the inference time without training.
- [Project Repository](#)
- [Final Report](#)

Bachelor's Thesis: DeepFake Detection **Istanbul, Turkey**
Boğaziçi University *September 2020 - February 2021*
- Development of different deep models which benefit from different learning paradigms to detect manipulated images.
- [Thesis Repository](#)

Project Development in Software Engineering **Istanbul, Turkey**
Boğaziçi University *September 2019 - February 2020*
- Development of a social platform for the trading community as a curricular project.
- Participated in the development of Android Mobile Application written in Kotlin.
- [Project Repository](#)

SKILLS

Fields of Interest: Machine Learning, Software Engineering, Computer Vision, Parallel Processing, Blockchain
Programming Languages: Java, Python, C/C++, JavaScript, SQL, Solidity
Frameworks & Libraries:
- **Back-End Development**: Spring Boot, Flask API
- **Front-End Development**: ReactJS
- **Machine Learning**: PyTorch, TensorFlow
- **Parallel Computing**: OpenMP, OpenMPI, PThread, CUDA
Database Systems: MongoDB
Operating Systems: Linux-based Distributions
DevOps: Docker, Jenkins, Ansible
Cloud Services: AWS
Version Control: Git
Development Environments: VSCode, PyCharm, IntelliJ, CLion, Xcode
Languages: Turkish (Native), English (Proficient), French (Pre-Intermediate), German (Beginner)

EXTRACURRICULAR ACTIVITIES

Congress Member **Istanbul, Turkey**
Beşiktaş JK *May 2023 - Present*