Baran Deniz Korkmaz

 Max-Wönner-Str. 29, 80995 Munich, Germany   📞 +49 1575 217 6409   ✉ barandenizkorkmaz@gmail.com   in LinkedIn   ⭘ GitHub

Education

Technical University of Munich	**Munich, Germany**
M.Sc. Computer Science - Current GPA: 1.5 (in German grading system)	*April 2021 - Present*
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.

Work Experience

Siemens AG — **Munich, Germany**
Master Thesis Student — *May 2024 - November 2024*
- Exploring the capabilities of Generative Models on Reinforcement Learning.

Infineon Technologies — **Munich, Germany**
Software Engineer - Working Student — *May 2023 - May 2024*
- Building web application for ordering of tester machines using ASP.NET Core with C# and MySQL database.
- Developing CI/CD pipelines for automation of building, testing, packaging, and deployment of chip testing libraries using Jenkins.
- Developing a PoC for deployment of software artifacts on tester machines using Ansible on Rundeck. Deployment of prototype is hosted and maintained on OpenShift. Techstack includes Docker, Kubernetes, Kustomization, and OpenShift.

Huawei Technologies — **Munich, Germany**
Machine Learning Engineer - Working Student — *November 2022 - April 2023*
- Development of a data pruning technique for domain generalization in the task of person re-identification.

Huawei Technologies — **Munich, Germany**
Software Engineer - Working Student — *September 2021 - October 2022*
- Development of SPAD core emulation software in Python. The software estimates the probability of detection of an object on a given range based on a set of parameters related to pulse, optics system, environment, and detector system.

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

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

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

Projects

Boğaziçi University Undergraduate Projects: Repository containing all source code for undergraduate projects. **Code**

CS Docs: A personal blog about technical concepts. **Website**

Route Planner at Forsailors: A web application developed for Forsailors company during interdisciplinary project (IDP). **Website**
- Developing a web application by MERN stack for sailors to plan their routes via an integrated map designed using MapBox.

ASE Delivery System: A curricular project completed during Master's studies. **Code**
- Developing a basic delivery system using Spring Boot, ReactJS, MongoDB, and Python (for Raspberry Pi).

Practical Course (Praktikum): Large-Scale Machine Learning **Code Report**
- Developing an ML model that predicts power consumption of a standard neural network in the inference time without training.

Bachelor's Thesis: DeepFake Detection **Code**
- Developing an ML model trained on FaceForensics++ dataset that detects deepfake images.

Skills

Programming Languages: Java, C#, Python, C/C++, JavaScript, SQL, Solidity
Backend & Frontend & DevOps: Spring Boot, ASP.NET, React, Docker, Kubernetes, Jenkins, Ansible, GitLab CI&CD
Cloud & Database Systems: AWS, Azure, OpenShift, Vercel, MySQL, MongoDB
Libraries & Developer Tools: PyTorch, TensorFlow, OpenMP, OpenMPI, Git, Postman, Weights & Biases, LaTeX
Languages: Turkish (Native), English (Proficient), German (Beginner), French (Beginner)

Extracurricular Activities

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

Algorithmic Achievements

- Solved **100+** DSA problems on **LeetCode** for building problem solving skills. For my **LeetCode** profile, click here.