EMRE DEMIR

+49(1520) 797-9960 ⋄ Munich, Germany

emredemireng@gmail.com ⋄ linkedin ⋄ portfolio ⋄ github

EXPERIENCE

Master Thesis Student   May 2023 - Ongoing
German Aerospace Agency(DLR)   *Munich, Germany*

- Introducing Hardware Aware Neural Architecture Search for Earth Observation Computer Vision models to increase the performance of the algorithm on certain hardware.

Software Engineer - Working Student   Dec 2021 - Ongoing
Siemens Financial Services   *Munich, Germany*

- Created a cash flow prediction Machine Learning models for United Kingdom and Poland teams, which has 70% better predictions than the existing baseline.

Machine Learning Engineer   July 2020 - Aug 2021
Insider (Unicorn Software Startup)   *Istanbul, Turkey*

- Contributed to development and maintenance of an in-house Auto ML Platform, serving over 450 customers.
- Developed a prototype NLP model using PyTorch to predict webpage types for customer clicks.
- Enhanced Machine Learning Operations pipeline using Apache Airflow, Kubernetes, Docker, and AWS products.

Software Engineer   June 2019 - July 2020
Vodafone   *Istanbul, Turkey*

- Successfully developed Chaos Engineering tool for Cloud Operations Team. To enhance system performance and reliability.
- Designed and developed a vulnerability notifier web application using for the Cyber-Security Team. Which effectively manages and tracks inventory of various device types, minimizing security risks and ensuring compliance.

EDUCATION

Master of Computer Science, Technical University of Munich   2021 - Expected 2023

Bachelor of Computer Science, Anadolu University   2014 - 2019

PROJECTS

Neural Architecture Search for Computer Vision Developed an automated a Neural Architecture Search pipeline that efficiently trains hundreds of Computer Vision models on HPC, resulting in the successful training of 1000 Deep Learning models.

Deep Learning to find 2D to 3D Point Correspondence on Non-Textured Objects Using a cutting-edge 6D pose estimation model, we were able to find successful 2D to 3D feature correspondence for non-textured objects.

MusicMood It suggests songs based on the selected mood and utilizes a Machine Learning classifier to refine the choices according to the user's preferences.

Picky-Rabbit LLM Powered Food Content Information Chatbot project. Gives you information about the content of your packaged food.

SKILLS

- C++, Python, Scala
- Machine Learning, Deep Learning, Object Detection, Image Segmentation, Large Language Models
- Pytorch, Apache Spark, Kubernetes, Docker, Airflow, AWS, Azure, Linux, Git