Fazlı Samed Koç

AI Engineer

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💼 PROFESSIONAL EXPERIENCE

HUAWEI, AI Engineer 🔗
- Conducted server setups and model migrations for Huawei Atlas devices.
- Migrated various models such as advanced speech recognition algorithms and Generative Adversarial Networks (GANs), ensuring compatibility with Huawei Ascend NPUs and optimizing them for efficient inference tasks.
- Focused on improving Large Language Models (LLMs) through fine-tuning, applying effective optimization strategies, and integrating Supervised Fine-Tuning (SFT) data to boost performance.
- Provided technical support through close communication with clients, addressing their concerns and resolving issues.
- Developed and implemented developer solutions using Huawei Cloud systems.

03/2023 – present
Ankara, Turkey

Valentura - Software Development Solutions, Full Stack Developer 🔗
- I have developed mobile applications and web pages from scratch, utilizing Python Django for the backend.

06/2022 – 03/2023

Beezsoft - Software Development Solutions, FrontEnd Developer 🔗
- I participated in the creation of software for cross-platform mobile development using Flutter, as well as front-end web development using React and Vue.

02/2022 – 06/2022

ASELSAN, Engıneerıng Intern
- I focused on radar and IFF (Identification Friend or Foe) systems. While there, I was responsible for designing a guide for signal-to-noise ratio (SNR) calculations specifically tailored to IFF systems, utilizing MATLAB for implementation.

06/2021 – 07/2021

🎓 EDUCATION

ELECTRIC ELECTRONIC ENGINEERING BACHELOR'S DEGREE,
Yildirim Beyazit University, Ankara, Turkey | 2022 Graduate
GPA:3.50

2017 – 2022
Ankara, Turkey

🧠 SKILLS

Computer Vision
Convolutional Neural Networks, Object Detection, Object Tracking, Object Classification, Pytorch, Tensorflow, Keras

Data Science
Neural Networks, Scikit-learn, Pandas, SQL, NoSQL, Regression, Clustering, SVM, Decision Tree, Random Forest, Web Scraping, Statistics, Data Visualization

Computer Proficiency
Python, C/C++, Flutter, Swift, Vue, React(Next) GitHub, Docker Embedded Systems, Object Oriented Programming, Matlab

🌐 LANGUAGES

Turkish
Native

English
Upper Intermediate

📁 PROJECTS

License plate detection algorithm
- In this project, I developed an advanced license plate detection and recognition algorithm for the Nvidia Jetson Nano. This involved integrating Optical Character Recognition (OCR) for precise character reading, employing object detection methods for accurate plate identification, and applying key image processing techniques to enhance image quality. The algorithm was designed to effectively handle diverse environmental conditions, ensuring reliable performance in real-time scenarios.

A Realtime Visual Target Object Detection System
- In this project, I developed a real-time visual target object detection system using traditional image processing methods. This system, distinct from AI-based models, relied on SIFT (Scale-Invariant Feature Transform) for robust feature extraction, and the Brute Force algorithm for effective image matching. These techniques allowed for accurate object detection and tracking without the need for deep learning, focusing instead on feature matching and homography to ensure consistency and accuracy across different views and conditions.

LLM Project
- In this project, we leveraged Supervised Fine Tuning (SFT) data in both Arabic and English to enhance the performance and optimization of our models. Through meticulous fine-tuning processes, we developed a more efficient and optimized project, ensuring that the models were finely adjusted to handle the linguistic complexities and nuances of both languages effectively

Wheelchair Object Detection for Ambulances
- Led a project focusing on the development of a specialized object detection model for identifying wheelchairs, aimed at enhancing ambulance services. Conducted extensive data collection to create a comprehensive dataset tailored for wheelchair detection. Undertook detailed labeling processes to accurately annotate the collected data, ensuring high-quality training material for the model. Performed fine-tuning on the detection model to specifically adapt it for recognizing wheelchairs in various environments and conditions. Optimized the model for Huawei Ascend NPUs, ensuring efficient and effective inference capabilities suitable for real-time applications.

⠿ REFERENCES

ONUR PEKER, *System Engineer*, ASELSAN
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GÖKHAN KORAY GÜLTEKİN, *Academician*, Yıldırım Beyazıt University
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KUBILAY TUNA, *AI-Engineer*, HUAWEI
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