Oral Yalçınpınar

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PROFESSIONAL SUMMARY

Computer Engineering M.Sc. student and AI Engineer specializing in computer vision and edge deployment. Experienced in using CUDA to run real-time inference on NVIDIA Jetson, and in developing and training object detection models with YOLO and TensorFlow. Builds end-to-end pipelines covering data preparation, training, evaluation, and deployment.

WORK EXPERIENCE

Research Assistant (Part-Time) — Yaşar University, İzmir *Oct 2024 – Present*

- Assisted in 7+ courses as a teaching assistant for C, Java, and Python.
- Research optimization algorithms for solving NP-Hard problems, with experimental work using quantum computing tools (Qiskit, IBM Quantum).

AI Engineer — DataFors Artificial Intelligence, Istanbul *Oct 2023 – Mar 2024*

- Built real-time computer vision models using YOLO and TensorFlow.
- Labeled, trained, and evaluated object detection models on a custom 1,000+ image dataset for anomaly detection, reaching approximately 75% accuracy.
- Optimized inference on NVIDIA Jetson Orin with CUDA to improve real-time runtime performance.
- Built end-to-end Python pipelines covering data preparation, training, evaluation, and deployment.

Android Developer Intern — QWERTY Software, İzmir *Jun 2023 – Aug 2023*

- Contributed to Android app development in a team using Java/Kotlin and Git.

Computer Engineering Intern — Yupana Telecommunication, İzmir *Jul 2022 – Aug 2022*

- Wrote a script to streamline technical documentation, reducing manual reporting effort in a telecom infrastructure environment.

KEY PROJECTS

Real-Time Noise Cancellation *Aug 2022 – May 2023*

- Designed and trained a deep learning model (TensorFlow) for real-time audio noise reduction; integrated it into an Android app implemented with Kotlin.

Real-Time Face Mask Detection *May 2019 – Jul 2019*

- Built an end-to-end YOLO + OpenCV pipeline: custom dataset creation and labeling, model training, validation, and live camera integration.

TECHNICAL SKILLS

Programming	Python, Java, Kotlin, C++, JavaScript
ML & Deep Learning	TensorFlow, PyTorch, Keras, Scikit-learn, YOLO, CNN, OpenCV
Computer Vision	Object Detection, Real-Time Inference, NVIDIA Jetson, CUDA
Data	Pandas, NumPy, Matplotlib, Seaborn, Feature Engineering
Tools	Git, GitHub, Linux, Docker, Jupyter Notebook, VS Code
Foundations	Data Structures & Algorithms, Optimization, Statistics

EDUCATION

M.Sc. Computer Engineering — Yaşar University *Sep 2023 – Present*
GPA: 3.52 / 4.00

B.Sc. Computer Engineering — Yaşar University *Sep 2019 – Sep 2023*

LANGUAGES

Turkish (Native) | English (Professional Working Proficiency)