Numan Bekir Özçelik

AI & Computer Vision Engineer

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Electrical and electronics engineer focused on object detection, experienced in building datasets from real camera footage, training YOLO models and validating them on live RTSP streams. Python, PyTorch, OpenCV, Linux, Docker.

EXPERIENCE

Founder & Software Developer Mar 2025 - Jan 2026
Kuryevar® · Sole proprietorship

- Motorcycle and car courier marketplace: map-based ordering, pricing and courier assignment, payments and operations management, with business and admin panels.
- Custom projects: barcode-based sales and inventory software, corporate websites.

SCADA Engineer Mar 2024 - Sep 2024
Boğaziçi Elektrik Dağıtım A.Ş. · Istanbul

- Diagnosed communication faults of ABB and Siemens RTUs over IEC 60870-5-104, configured RTUs with Cisco and Huawei routers, and designed and configured SCADA screens with ABB PSE and PED500.

Software Support Specialist (AI Department) Jul 2021 - Jul 2023
Ekin Smart City · Ankara

- Prepared datasets from real traffic camera footage: filtering, augmentation with OpenCV, labeling with CVAT, train/validation/test splits.
- Trained YOLO object detection models on GPU with CUDA and cuDNN, on Linux and Windows.
- Validated trained models in real time on RTSP streams.
- Automated data processing and file management with Python scripts.

PROJECTS

Detection Eval · github.com/numanbekir/detection-eval
Evaluation library for object detection models. Results match pycocotools exactly. Analyzed the causes of the mAP gap between Ultralytics and pycocotools.

AI-Powered Smart Intersection · github.com/numanbekir/ai-powered-smart-intersection
Adaptive traffic signal control driven by YOLO detections (simulation). Compared with conventional signals, vehicle wait time dropped by 22%, and emergency vehicles were given priority.

Object Recognition and Web Lookup · github.com/numanbekir/object-recognition-web-lookup
CPU-only app that recognizes the object in a photo with CLIP and returns sourced information from the web.

Tanırım · tanirim.com
Web platform where computer vision applications run in real time in the browser, on the user's device.

EDUCATION

B.Sc. Electrical and Electronics Engineering 2019 - 2023
Haliç University · Istanbul
Graduation project: AI-Powered Smart Intersection.

SKILLS

Computer vision: YOLO, OpenCV, PyTorch, ONNX Runtime, CUDA, CLIP, MediaPipe, CVAT, RTSP
Programming: Python, TypeScript, SQL
Tools and frameworks: Linux, Docker, Git, Next.js, NestJS, PostgreSQL, PyQt5
Industrial: SCADA, IEC 60870-5-104
Languages: English (B2)