ONUR COPUR

Computer Vision / Deep Learning Engineer

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Computer Vision Engineer specializing in custom deep learning models, with expertise in object detection for retail and OCR solutions for postal services. Skilled in Python backend development in production environments, CI/CD automation, and hardware–software integration. Proficient in designing end-to-end data pipelines, deploying scalable AI solutions, and integrating models into edge devices on Linux-based systems.

AREAS OF EXPERTISE

Programming & Data Science: Python |SQL | LangChain | Pandas | NumPy | PyTorch | TensorFlow | FastAPI
MLOps & Deployment: Docker | Triton Inference Server | MLFlow | Jenkins | Airflow | ONNX | TensorRT
Cloud & Infrastructure: Microsoft Azure | AWS | Google Cloud Platform | Linux
Edge AI & Embedded Computer Vision: Nvidia Jetson | OAK-D Cameras | ESP32
Project Management & Collaboration: SCRUM | Jira | CI/CD | Git

KEY ACHIEVEMENTS and PUBLICATIONS

- **Transformer-Based OCR System for National Postal Service:** Developed a novel transformer-based OCR achieving SOTA performance, reducing latency by 65%, and deployed for 1M+ daily scans with <0.5% error rate.
- **End-to-end Microservice Pipeline for Shrinkage Detection:** Built an end-to-end microservice pipeline for real-time shrinkage detection at the largest retail chain, reducing losses by 25%. Deployed in 5 stores and 180 self-checkouts.
- **Selected Publications (For complete details, see my Google Scholar profile):**
  - "Renewable energy management in smart home environment via forecast embedded scheduling based on Recurrent Trend Predictive Neural Network", Applied Energy, 340 (2023).
  - "Engagement detection with multi-task training in e-learning environments", ICIAP (2021)

PROFESSIONAL EXPERIENCE

PRIME VISION — DELFT / THE NETHERLANDS
Computer Vision / Deep Learning Engineer — *May 2022 – Present*

- Develop and deploy production-grade deep learning models (LLMs, VLMs, Foundation Models).
- Architect and maintain microservice pipelines for real-time data processing and inference.
- Lead reading groups and technical seminars to foster continuous learning and keep the team at the forefront of state-of-the-art AI and deep learning research.
- Collaborate with cross-functional teams to modernize legacy computer vision systems into scalable microservices.

BARCO — KORTRIJK / BELGIUM
Master Thesis Internship — *March 2021 – October 2021*

- Developed a deep learning system to analyze video data and assess subject engagement during educational content.

UNIVERA — IZMIR / TURKEY
Data Scientist — *May 2018 – August 2019*

- Developed a demand forecasting tool and a genetic algorithm route optimizer for retail, tobacco, and FMCG sectors.

EDUCATION

SAPIENZA UNIVERSITY — ROME, LAZIO / ITALY
Master's Degree in Data Science — *September 2019 – October 2021*
**Graduated with High Honours (110 cum laude/110)*

YASAR UNIVERSITY — IZMIR / TURKEY
Bachelor's Degree in Industrial Engineering — *September 2015 – June 2019*
**GPA: 3.77/4.0*

ADDITIONAL

LANGUAGES: Turkish (Native), English (C2), Dutch (B1), Italian (A2).