

ONUR COPUR

Computer Vision / Deep Learning Engineer

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Dedicated Computer Vision / AI Engineer specializing in custom deep learning models, with expertise in OCR solutions for postal services and product detection for retail. Expert in researching state-of-the-art architectures, training neural networks, and deploying scalable AI solutions. Proficient in designing end-to-end data pipelines and integrating models into edge devices.

AREAS OF EXPERTISE

Programming & Data Science: Python | SQL | LangChain | Pandas | NumPy | PyTorch | TensorFlow

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: OpenCV | 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

Computer Vision / Deep Learning Engineer

DELFT / THE NETHERLANDS

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

Master Thesis Internship

KORTRIJK / BELGIUM

March 2021 – October 2021

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

UNIVERA

Data Scientist

IZMIR / TURKEY

May 2018 – August 2019

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

EDUCATION

SAPIENZA UNIVERSITY

Master's Degree in Data Science

*Graduated with High Honours (110 cum laude/110)

ROME, LAZIO / ITALY

September 2019 – October 2021

YASAR UNIVERSITY

Bachelor's Degree in Industrial Engineering

*GPA: 3.77/4.0

IZMIR / TURKEY

September 2015 – June 2019

ADDITIONAL

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