

## Contact

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## Top Skills

Agents

Fine Tuning

Long Short-term Memory (LSTM)

## Certifications

Computer Vision: Object Detection with YOLOv4

Python Object-Oriented Programming

Machine Learning with Python

Advanced Deep Learning with Python

Python Programming for Artificial Intelligence

## Publications

Calculation of Dielectric Dissipation Factor at Variable Frequencies of Model Transformer

# Onur Kaya

Artificial Intelligence & Computer Vision Engineer & LLM

Nilüfer, Bursa, Türkiye

## Summary

As an AI & Computer Vision Engineer, I have designed and deployed scalable, real-time solutions across industrial, automotive, and medical domains. My work includes object detection, driver monitoring, defect inspection, and IoT-based alert systems, leveraging tools such as YOLO, OpenCV, PyTorch, TensorFlow, and NVIDIA Jetson Nano.

In recent years, I have expanded my focus to Large Language Models (LLMs) and NLP-driven applications. I have delivered hands-on projects involving:

Retrieval-Augmented Generation (RAG) with LangChain and vector databases (FAISS, Chroma)

Multi-model orchestration with GPT-4o, Claude, and Gemini

Streaming API pipelines and interactive UIs with Gradio

Tool-calling and prompt routing workflows for task automation

Quantized fine-tuning and offline inference with LLaMA (QLoRA/LoRA) and Whisper

Experiment tracking and evaluation with Weights & Biases (W&B), RMSLE, F1, and business-centric metrics

My goal is to design AI-powered systems that are fast, interpretable, and user-centric — whether deployed in the cloud or on the edge. I am passionate about combining Computer Vision, Deep Learning, and LLMs to solve real-world problems in scalable and accessible ways.

Let's build intelligent systems that learn from data and make a measurable impact.

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## Experience

Ithinka IT and IoT Technologies

Artificial Intelligence and Image Processing Engineer

July 2024 - June 2025 (1 year)

Bursa, Türkiye

AI & Computer Vision Engineer

Worked on deep learning and computer vision projects.

Some Projects:

Driver Monitoring System: Built a real-time driver monitoring solution to detect drowsiness and fatigue using facial cues and alert mechanisms.

Pelsan Tekstil – PoC Project: Developed a vision-based safety system using pose estimation to detect and alert when a human limb enters a restricted machine zone.

Kuzey Ege Highway – Road Marking Degradation Detection: Designed an image processing tool to detect worn or faded road markings for highway maintenance analysis.

KBE Mühendislik

Electrical Electronic Engineer

November 2020 - June 2024 (3 years 8 months)

Şişecam

Project Intern

January 2018 - September 2018 (9 months)

Contributions have been made to factory modernization for Industry 4.0 compliance during cold repair processes.

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## Education

İstanbul Teknik Üniversitesi

Electrical and Electronics Engineering · (September 2015 - June 2018)

Karabük University

Electrical and Electronics Engineering · (September 2011 - June 2015)

