



# Yusuf Çelebi

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**ub:** [github.com/YusufCelebi](https://github.com/YusufCelebi) | **Address:** Bursa/İnegöl, Türkiye (Home)

## ● ABOUT ME

I am a computer engineer specializing in computer vision, object detection, tracking, recognition, segmentation, and image processing. My goal is to address challenges not only with existing tools but also by developing innovative systems of my own. I excel in problem-solving by combining analytical thinking with diverse approaches. My creative and solution-oriented perspective when tackling new problems shapes my professional vision.

## ● EDUCATION AND TRAINING

05/09/2020 – 03/01/2025 Gaziantep, Türkiye

**COMPUTER ENGINEERING** Hasan Kalyoncu University

## ● WORK EXPERIENCE

08/06/2024 – 09/10/2024 ODTÜ Teknokent, Çankaya/Ankara, Türkiye

**COMPUTER VISION ENGINEER - INTERN** ISSD BİLİŞİM ELEKTRONİK A.Ş.

During my long-term internship at ISSD, I gained hands-on experience in **computer vision, deep learning, and object detection**. I trained **GPU-accelerated** models using **CUDA** in **YOLO**-based deep learning projects, optimizing them for **real-time** applications.

Working in the **R&D** department allowed me to research and explore emerging concepts such as **Segment Anything Models (SAM)**, enhancing my ability to work on cutting-edge technologies. Additionally, I evaluated the performance of the models I developed using standard metrics and applied necessary optimizations to improve accuracy.

Technical Skills:

- OpenCV
- YOLOv8
- SAM (Segment Anything Models)
- CUDA & GPU Optimization
- Technical Documentation Review
- Git & GitHub

15/12/2023 – 01/03/2024 Gaziantep, Türkiye

**PYTHON DEVELOPER** THE BLUE RED

At this startup operating in the field of **smart digitalization**, I conducted experimental studies focused on **Natural Language Processing (NLP)** using the **LangChain** framework.

I enhanced my technical skills in **sentiment analysis, text tokenization, and large language model (LLM)** integration.

Technical Skills:

- Python
- LangChain

## • PROJECTS

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### Real-Time Automatic License Plate Recognition

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Developed and trained models for vehicle tracking, license plate detection, and recognition using **YOLOv8** with **Transfer Learning**. Optimized model performance by utilizing **CUDA** acceleration and implementing **Region of Interest (ROI)** techniques to **increase FPS**. Prepared and enhanced datasets sourced from **Kaggle** and **Roboflow** to align with **real-world** test data provided by ISSD. Successfully created a customized dataset, resulting in a significant improvement in model accuracy.

Link <https://github.com/YusufCelebii/Realtime-Automatic-License-Plate-Recognition>

### LSB Steganography for Medical Images

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This project, developed as a bachelor's thesis and graduation project, aims to securely store patient information by embedding text data into medical images using the **Least Significant Bit (LSB) steganography** method.

The algorithms were implemented from scratch using **.NET** technologies without relying on existing libraries.

The project was developed with a focus on creating problem-specific mathematical solutions and building algorithms from the ground up, rather than using ready-made tools.

### Personal Portfolio & Blog Website

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A dynamic personal website developed with **Django** for the **back-end** and **HTML, CSS, Bootstrap**, and **JavaScript** for the **front-end**. The platform serves as a portfolio to showcase my projects and as a blog where I can write and share articles.

Link <https://yusufcelebi.dev/>

### Real Time Intersection Analysis

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This **YOLO**-based application performs **vehicle detection** and **movement tracking** on intersection videos. It counts vehicles passing through predefined **Regions of Interest (ROI)**. The collected data is used to conduct directional flow analysis, providing **real-time** insights into traffic density at the intersection to support traffic management decisions.

Link <https://github.com/YusufCelebii/Intersection-Anylsis-with-YOLOv8>

### Bus Ticket Automation System

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Developed using **.NET**, this project automates the bus ticketing process, allowing users to select seats, book tickets, and manage reservations. It includes functionalities such as ticket issuance, seat selection, and payment integration, providing an efficient and user-friendly solution for bus transportation management.

Link [https://github.com/YusufCelebii/Transportation\\_Automation\\_Semester\\_Project](https://github.com/YusufCelebii/Transportation_Automation_Semester_Project)

## • SKILLS AND KNOWLEDGE

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### Knowledge

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- Image Processing
- Computer Vision
- Computer Graphics
- Web Development
- Object Oriented Programming (OOP)
- Version Control
- Algorithm Analysis and Data Structures

## Programming Languages and Technologies

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- Python
- OpenCV
- YOLO
- Django/MVT
- Selenium
- Segment Anything (Sam)
- Tensorflow, PyTorch
- Pandas, Numpy, Matplotlib
- C
- C#
- .Net
- JavaScript, CSS, HTML
- Git/ GitHub

## ● LANGUAGE SKILLS

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Mother tongue(s): **TURKISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	B2	B2	B2	B2	B2

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ● DRIVING LICENCE

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**Driving Licence:** AM

**Driving Licence:** B1

**Driving Licence:** B

## ● VOLUNTEERING

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01/12/2024 – 08/12/2024 Tbilisi / Georgia

### **Empowering Youth for Entrepreneurial Success - European Solidarity Corps Volunteering**

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Focused on empowering young people by enhancing entrepreneurial and digital skills through non-formal education. Participants explored business ideation, teamwork, leadership, and digital marketing, improving employability and promoting cultural exchange, inclusion, and European values.

02/07/2023 – 03/08/2023 Krasnoyarsk, Abakan/Russia

### **Sounds of Siberia - European Solidarity Corps Volunteer**

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Volunteered for the European Solidarity Corps, focusing on eco-friendly construction workshops. Gained valuable experience in foreign language communication and cultural exchange.

## ● HONOURS AND AWARDS

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### **PROMPT HACKATHON'23**

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With my team Rivendell, we developed an application that provides commercial analysis and export recommendations using web technologies and the ChatGPT API over 48 hours. Our project won third place in the competition.

Link [www.milliyet.com.tr/egitim/yapay-zeka-etkinliginde-yazilim-gelistirdiler-7045096](http://www.milliyet.com.tr/egitim/yapay-zeka-etkinliginde-yazilim-gelistirdiler-7045096)

## HKU Game & Web Innovation Marathon 2024

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With my team Rivendell, we developed an action-escape game adhering to the "puzzle" theme over 48 hours. Our game was awarded second place.

Link [www.iha.com.tr/gaziantep-haberleri/hkude-game-jam-ve-web-hackathon-bulustu-78430657](http://www.iha.com.tr/gaziantep-haberleri/hkude-game-jam-ve-web-hackathon-bulustu-78430657)

## ● HOBBIES AND INTERESTS

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### Playing Guitar

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I have a rock band and we perform at various events.

## ● REFERENCES

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### Prof. Dr. Recep Demirci

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*Hasan Kalyoncu University, Head of the Department Computer Engineering, Gaziantep*

*email: recep.demirci@hku.edu.tr*