

NUR BILGE OZCAN

Contact Information

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GitHub: github.com/BILGEOZCAN

Technical Skills

- **Programming Languages:** Python, C++, Java, C#, JavaScript, MATLAB, SQL, Bash
- **Frameworks & Libraries:** OpenCV, TensorFlow, PyTorch, Keras, Scikit-learn, NumPy, Pandas, Spring Boot, .NET
- **Artificial Intelligence & Machine Learning:** Machine Learning, Deep Learning, Convolutional Neural Networks (CNNs), Computer Vision, Natural Language Processing (NLP), Model Training and Evaluation, Feature Engineering, Prompt Engineering
- **Tools & Platforms:** Git, GitHub, Linux, Docker, Jupyter Notebook, VS Code, PyCharm, Visual Studio
- **Methodologies & Practices:** Agile, Scrum, Software Development Life Cycle (SDLC), Risk Management, Version Control, Test-Driven Development (TDD)

Professional Experience

TÜBİTAK – Researcher

September 2025 – January 2026

Software Engineer · Ankara, Türkiye

- I contributed to the development of an artificial intelligence-based intelligent traffic control system.
- I designed real-time image processing and decision-making components using the OpenCV, TensorFlow, and PyTorch libraries.

Computer Engineer Intern – Smart Solar Technologies

January 2023 – August 2025

Intern · Izmir, Turkey

- I developed deep learning models using PyTorch and was involved in all stages of the pipeline, including data preparation, model training, and model evaluation.
- I reported experimental results and conducted accuracy, loss, and efficiency analyses of the algorithms.

Artificial Intelligence & Image Processing Intern – Istanbul University

July 2022 – January 2023

Intern · Istanbul, Turkey

- I contributed to the development of image processing-focused modules using Python and C++.
- By optimizing real-time object detection, segmentation, and filtering processes with OpenCV, I achieved up to a 30% performance improvement.
- I trained classification algorithms using TensorFlow-based CNN models and performed hyperparameter optimization.

Project Management Intern – TNC Group

February 2022 – July 2022

Intern · Istanbul, Türkiye

- I gained proficiency in methodologies required to actively contribute to the initiation, planning, execution, and evaluation phases of projects.
- I acquired hands-on experience in teamwork, problem-solving, organization, and process improvement.

Projects & Competitions

TEKNOFEST 2024 – Finalist

- I achieved 7th place in the “Agricultural Technologies” category.
- I developed a video processing pipeline using OpenCV, enhancing the system’s real-time analysis capabilities.

TEKNOFEST 2023 – Finalist

- I achieved 7th place in the “Action-Based Turkish Large Language Model Competition.”
- I optimized PyTorch- and TensorFlow-based models for deployment in production environments, improving the accuracy of model-driven decision-making mechanisms.

BAP Project

- I contributed to the development of a YOLOv8-based intelligent traffic management system and worked on deep learning models for real-time vehicle detection, classification, and traffic density analysis.

Publications

"Strawberry Ripeness Detection: Optimizing Harvesting Efficiency with YOLOv11"

Authors: Tahsin Soyak, Nur Bilge Özcan, Gökalp Çınarer

Publisher: IEEE

Conference Date: May 23–24, 2025

DOI: [10.1109/ICHORA65333.2025.11017268](https://doi.org/10.1109/ICHORA65333.2025.11017268)

Languages

- Turkish – Native
- English – Advanced / Fluent

Education

Bachelor’s Degree in Computer Engineering

Yozgat Bozok University, Türkiye

September 2022 – Present

GPA: 3.10 / 4.00

Volunteer Experience & Affiliations

- Microsoft Student Ambassador
- Member, Google Developer Groups (GDG)
- Instructor & Mentor, T3 Foundation
- Student Quality Evaluator, YÖKAK
- President, Computer Engineering Student Society, Yozgat Bozok University
- Quality Ambassador, Quality Society, Yozgat Bozok University

References

- **Dr. Öğr. Üyesi Gökalp Çınarer**

Yozgat Bozok University - Phone: +90 506 533 52 99

- **Görkem Kılıç**

IT Specialist – Smart Solar Technologies - Phone: +90 537 723 86 19