



Furkan Güzelant

MSc Student in Computer Science | Bilkent University, Ankara, Turkey

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Education

- Bilkent University**, M.Sc. in Computer Science Sept 2024 – Present
- GPA: 4.0/4.0
 - Under the supervision of Asst. Prof. Ayşegül Dünder at the Generative Deep Learning Research Lab.
 - Granted a **Department Scholarship** at the time of enrollment
 - **Research interests:** 3D Generative Models, Diffusion Models, 3D Stylization
- École Polytechnique Fédérale de Lausanne (EPFL)**, Erasmus Exchange Feb 2023 – June 2023
- GPA: 5.42/6.0
 - **Coursework:** Deep Learning for Autonomous Vehicles, Computer Graphics
- Bilkent University**, B.Sc. in Computer Science Sept 2019 – June 2024
- GPA: 3.94/4.0
 - **Full Scholarship:** Ranked 300th among over 2.5 million students in the university entrance exam
 - Graduated with Summa Cum Laude honors
 - **Coursework:** OOP with Java, Data Structures in C++, Database Management, Object Oriented Software Development, Operating Systems, Algorithms, Machine Learning, Computer Networks, Deep Generative Networks, Automata Theory and Formal Languages

Publications

- Identity Preserving 3D Head Stylization with Multiview Score Distillation** June 2025
- Bahri Batuhan Bilecen, Ahmet Berke Gökmen, *Furkan Güzelant*
- IEEE/CVF International Conference on Computer Vision (ICCV), 2025

Experience

- Teaching Assistant**, Bilkent University Sep 2024 – Present
- Course assisted: CS421 Computer Networks
- Candidate Engineer**, InterLabs – Ankara, Turkey June 2023 – Sep 2024
- Developed and trained machine learning models for accurate detection and tracking of small, fast-moving objects
 - Built a robust Automatic Speech Recognition (ASR) and Speaker Diarization pipeline to transcribe and distinguish Turkish meeting recordings
 - Fine-tuned large language models (LLMs) for Turkish dialogue summarization and implemented Retrieval-Augmented Generation (RAG) systems to enhance search and information retrieval
- Test Engineering Intern**, HAVELSAN – Ankara, Turkey Aug 2022 – Sep 2022
- Developed automation testing using Selenium and TestNG
- Machine Learning Engineer Intern**, DataBoss Analytics & Security – Ankara, Turkey July 2022 – Aug 2022
- Completed a time-series forecasting project using data analysis and feature engineering.
 - Implemented supervised machine learning models such as XGBoost and LightGBM to make predictions from

historical data, gaining hands-on experience with Python, scikit-learn, and NumPy.

Projects

Bird's Eye View (BEV) Semantic Segmentation

- Designed and developed a solution for the Bird's Eye View (BEV) Semantic Segmentation task using PanopticBEV as the baseline model.
- Conducted experiments to improve the accuracy of the model

Retrieval-Augmented Generation (RAG) for Image Synthesis

- Enhanced a RAG-based image generation pipeline by improving retrieval accuracy and incorporating iterative refinement.

Semantic Segmentation with CRFs

- Built a semantic segmentation model for urban scenes by combining deep learning with Conditional Random Fields (CRFs).

Stock price prediction with LSTM

- Trained an LSTM model for stock prediction of Microsoft

Yoldas - A blind-assistance application

- Developed a mobile app to support visually impaired individuals in leading more independent lives
- Enabled real-time video connections with volunteers for assistance with daily tasks and emotional support
- Integrated AI features for image and document recognition, along with an accessible UI and smart feedback mechanisms
- Designed and implemented the frontend and core AI functionalities of the application
- **Technologies used:** Flutter, Python

Gym Management Application

- A project for facilitating the management of gyms at Bilkent University
- Designed and developed the backend side of the application
- **Technologies used:** Java, React JS

Technical Skills

Programming Languages: Python, Java, JavaScript, C/C++, SQL

Application Frameworks: Java Spring Boot, Flutter, React

AI/ML Frameworks: PyTorch, TensorFlow, Keras, Scikit-Learn, Pandas, Numpy, Matplotlib, Seaborn, Plotly

Developer Tools: Docker, LaTeX, Git, GitHub, Jira

Languages: English (Proficient), German (Beginner)

Achievements

Summa Cum Laude Honors: Ranked 4th out of 178 students

National University Entrance Exam: Ranked 300th among 2.5 million candidates

IELTS Academic Overall Band Score: 7.5

Academic Personnel and Postgraduate Education Entrance Exam: Ranked 39th out of 128 thousand applicants

The Scientific and Technological Research Council of Türkiye (TUBITAK) BİDEB Scholarship