

Ömer Kaan Gürbüz
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GitHub Profile
LinkedIn Profile

EDUCATION

- **Bilkent University** 2023-Present
Computer Science Masters
 - Courses: Deep Learning, Learning for Robotics, Data Science for Software Engineering, Computational Geometry, Data Privacy, Automated Program Repair
 - Teaching Assistant: Algorithms and Programming I, Computers and Data Organization
 - Contributor to projects: Newt and sbgnviz.js
- **TOBB ETU** 2019-2023
Computer Science Bachelors GPA: 3.05
 - Electives: Data Mining, Natural Language Processing, Machine Learning, Deep Learning, Computer Vision, Cryptography

EXPERIENCE

- **Netcad** Sep 2022-Dec 2022
Machine Learning Intern Ankara, Turkey
 - Worked on research and development of Graph Neural Networks for point cloud part segmentation problem.
 - Implemented custom Graph Neural Networks using PyG (PyTorch Geometric).
- **Turkcell** Jan 2022-May 2022
Machine Learning Intern Istanbul, Turkey
 - Worked on facial recognition, age estimation and gender estimation
 - Implemented CNNs with Tensorflow
- **HAVELSAN** May 2021-Sep 2021
Computer Engineering Intern Ankara, Turkey
 - Worked on development of a twin-turbine helicopter simulation

PERSONAL PROJECTS

- **Image Deformation As a Data Augmentation Method** Jul 2022
Implementation of the paper with the same name
 - * Tools & technologies used: Python, Tensorflow
 - * [Github Link](#)
- **Turkish Poetry Generation Using Transformers** Aug 2022
Development of a transformer based model
 - * Tools & technologies used: Python, PyTorch
 - * Implemented with PyTorch from scratch
 - * [Github Link](#)

RESEARCH EXPERIENCE

- **Watermarking Language Models** Feb 2023-Nov 2023
Researching watermarking algorithms for Large Language Models to detect machine-generated text
 - * Tools & technologies used: Python, PyTorch, HuggingFace Transformers
 - * [See the full paper here.](#)

TECHNICAL SKILLS AND INTERESTS

Developer Tools: C(Proficient), Python(Advanced), Java(Proficient), SQL(Proficient)
Packages: PyTorch, Tensorflow, HuggingFace Transformers, Scikit-learn, Numpy, SciPy, Pandas, NLTK, Matplotlib
Areas of Interest: Natural Language Processing, Large Language Models, Machine Learning, Data Science, Ethical AI

LANGUAGES

English: IETLS 7.5, e-YÖKDİL 90
Turkish: Native proficiency
German: Beginner proficiency

CONTESTS

- **SIU2023-NST: Hate Speech Detection:** 1st place in two categories.
- **2024 Teknofest T3 AI Hackathon:** Finalist and 4th place in LLM Finetuning over 327 teams.
- **2024 Teknofest Trendyol E-commerce Hackathon:** 2nd place. Developed a pipeline for enhancing user products.