Ömer Kaan Gürbüz

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 GitHub Profile

in 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

–SİU2023-NST: Hate Speech Detection: 1st place in two categories

–Teknofest T3 AI Hackathon: Finalist and 4th place in LLM Finetuning over 327 teams.