Görkay Aydemir

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EDUCATION

Koc University Istanbul, Turkey
M.Sc. in Computer Engineering *Sep 2023 − Now*
CGPA: 0/0

Middle East Technical University Ankara, Turkey
B.Sc. in Computer Engineering *Sep 2017 − Jul 2022*
CGPA: 3.99/4.00, 2nd out of 2540

Ankara Science High School Ankara, Turkey
High School Diploma *Sep 2013 − Jun 2017*

RESEARCH EXPERIENCE

KUIS (Koc University - Is Bank) AI Center Istanbul, Turkey
Research Intern *Nov 2021 − Sep 2023*
- Conducted research on Unsupervised Video Object Segmentation under supervision of Dr. Fatma Guney and Dr. Weidi Xie
- Conducted research on Motion Forecasting of Autonomous Vehicles under supervision of Dr. Fatma Guney

University of Illinois at Urbana-Champaign (UIUC) Champaign, Illinois, US
Research Intern *June 2021 − Nov 2021*
- Conducted research on the interaction of ML systems in Autonomous Vehicles and end-to-end testing of them under supervision of Dr. Reyhaneh Jabbarvand

METU Image Processing and Pattern Recognition Lab Ankara, Turkey
Research Intern *Aug 2020 − Sep 2020*
- Worked on some Computer Vision related tasks including image processing and literature studies about Computer Vision-Deep Learning under supervision of Dr. Emre Akbaş

WORK EXPERIENCE

Codeway Studios Istanbul, Turkey
AI Research Scientist *May 2023 − Oct 2023*
- Working on development of Generative AI solutions, specifically Diffusion Models

AI Research Engineer *Nov 2022 − May 2023*
- Worked on reproduction and improvements of recent Generative AI methods

Havelsan Ankara, Turkey
Intern *Aug 2021 − Sep 2021*
- Worked on messaging between radars and internal systems. Specifically design and optimization of test cases

Simsoft Ankara, Turkey
Intern *June 2019 − Aug 2019*
- Worked on a simulation-game project

PUBLICATIONS

G. Aydemir, W. Xie, F. Güney, "Self-supervised Object-centric Learning for Videos ", Conference on Neural Information Processing Systems (NeurIPS), 2023

G. Aydemir, A. K. Akan, F. Güney, "ADAPT: Efficient Multi-Agent Trajectory Prediction with Adaptation", International Conference on Computer Vision (ICCV), 2023

G. Aydemir, A. K. Akan, F. Güney, "Trajectory Forecasting on Temporal Graphs", arXiv preprint, arXiv:2207.00255, 2022

Achievements

Ranked 1st in CENG Demoday 2022 (METU Computer Engineering Department Graduation Project competition) with the project [DIP: Dynamic Insurance Pricing](#)

Ranked within the initial 100 in the 2017 National University Entrance Exam over more than 2 million candidates

Research Interest

Object-Centric Learning

Unsupervised (Video) Object Detection/Segmentation

Trajectory Forecasting for Autonomous Driving

Skills

Programming Languages: Python, C, C++

Libraries and Frameworks: PyTorch, NumPy, Scikit-Learn

Languages: Turkish (Native), English (Professional, TOEFL IBT: 103)