

Unat Teksen

Istanbul, Turkey

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Education

Kadir Has University

Bachelor of Science in Computer Engineering

GPA: 4.0/4.0

2018 – 2023 (expected)

Istanbul, Turkey

Experience

Koç University

Research Intern

June 2022 – Present

Istanbul, Turkey

- Working at *Koç University Cryptography, Security, and Privacy Research Group* as an undergraduate researcher.
- **Supervisors:** Assoc. Prof. Alptekin Küpçü, Asst. Prof. Ercüment Çiçek
- Working on implementation of novel defensive mechanisms against attacks in privacy-preserving machine learning systems. Specifically, working with split learning.
- Implemented anomaly detection models to detect and mitigate the impacts of a specific attack in a distributed and private deep learning model. Contributing as a co-author for a [paper](#) which is under peer-review.
- *PyTorch, scikit-learn, NumPy, Pandas and, Matplotlib* are used throughout the project.

ASELSAN

Software Engineering Intern

June 2022 – July 2022

Ankara, Turkey

- Worked at *Department of Avionics Software* which is responsible for designing and developing graphical user interface for aircraft.
- Developed an interface for unit test which is integrated with GUI of the specific aircraft. Developed for acknowledging aircraft's protocol commands.
- *C/C#* are used throughout the project.

Kadir Has University

Research Intern

Nov. 2021 – June 2022

Istanbul, Turkey

- Worked on dimension reduction methods and graph-based manifold learning algorithms for open-source Sca-ML project. “*Developing a New Method Based on Eigenvalue Distribution Slicing and Contour Integral for Manifold Learning and Analysis of Big Data*” project is supervised by Asst. Prof. E. Fatih Yetkin.
- Implemented PETSc/SLEPc libraries and functions for the solution of eigenvalue problems in dimension reduction methods: *PCA, SVD*.
- *scikit-learn, NumPy, Pandas, SciPy, PETSc/SLEPc, Matplotlib and, Plotly* are used throughout the project.

Argenova

Software Engineering Intern

June. 2021 – July 2021

Kocaeli, Turkey

- Developed a content management system for company's blog and project pages.
- *PHP, JavaScript, jQuery, MySQL, and, CSS* are used throughout the project.

Preprints

1. Ege Erdogan, **Unat Teksen**, M. Salih Celiktenyildiz, Alptekin Kupcu, A. Ercument Cicek. “**Defense Mechanisms Against Training-Hijacking Attacks in Split Learning**”, 2023; [arXiv:2302.08618](https://arxiv.org/abs/2302.08618).
 - This paper is **under peer-review** for a journal.

Honor & Awards

Bachelor's Degree Scholarship

Sept. 2018–2023

- Merit-based scholarship for undergraduate education.

Top Ranked Student in Engineering & Natural Sciences (7 Semesters)

Jan. 2022

- Highest ranked student among the students in faculty of Engineering & Natural Sciences for 7 semesters.

TÜBİTAK Star Scholarship for Undergraduate Research Project

Dec. 2021–June 2022

- Selected by TÜBİTAK (Scientific and Technological Research Council of Turkey) and coordinators of the “Scalable Manifold Learning” research project as an undergraduate scholar for 6 months.

Projects

Skin Lesion Classifier | *PyTorch, scikit-learn, NumPy, Matplotlib, PIL*

- Implementation of most popular convolutional neural networks (CNN) to classify and detect skin cancer with data augmentation methods.
Github repository: <https://github.com/robuno/skin-disease-classifiers>

Personal Blog Management System for Academics | *PHP, MySQL, JavaScript, Bootstrap, CSS*

- An easy-to-use content management system with modules to meet all the needs of academics and researchers.
Github repository: <https://github.com/robuno/academics-blog-cms>

Instagram Follower & Following List Scraper | *Python, Selenium, Web Driver Manager*

- Creates a list of followers and followings with the current time.
Github repository: <https://github.com/robuno/instagram-follower-following-scraper>

Certificates & Courses

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization | *Credential*

- Issued by DeepLearning.AI & Coursera

Neural Networks and Deep Learning | *Credential*

- Issued by DeepLearning.AI & Coursera

CCNA: Introduction to Networks | *Credential*

- Issued by Cisco

Machine Learning by Stanford University | *Credential*

- Andrew Ng's ML Course using Matlab, Octave

Skills & Technical Strengths

Human Languages: Turkish (*nature*), English (*fluent*), Italian (*elementary*)

Programming Languages: Python, Java, JavaScript, C/C#, PHP, Matlab, CSS

Frameworks/Libraries

Machine Learning/Data Science: PyTorch, scikit-learn, NumPy, Pandas, Matplotlib

Web Development: jQuery, React, Bootstrap

Other Technologies/Databases: MySQL, Tkinter, Swing

Typesetting: LaTeX

Activities

Social Media Content Creator & Designer

Kadir Has University Social Support & Solidarity Community

- Designing and creating content specific to regular announcements and events for social media platforms. Volunteering in the organization of charity events

Updated on February 24, 2023