İlknur Akçay

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EDUCATIONS

Istanbul Medipol University	2017-2022
B.S. Computer Engineering, 100% English	*GPA: 3.19/4.0*
Istanbul Medipol University	2019-2023
B.S. Biomedical Engineering, 100% English,Full Scholarship	*GPA: 3.22/4.0*

SKILLS

Languages: Python, Spark, SQL, MATLAB, C/C++
Libraries: Tensorflow, Matplotlib, Numpy, Scikit-learn

EXPERIENCE

AI Research Engineer | *Huawei*   04/2023 – Present

Click-Through Rate (CTR) and Conversion Rate (CVR) prediction for company ads.The project aim is increase to these ratios using deep learning techniques different regions and targeting millions of users.

-Data visualization and analysis on large datasets,
-Working with ML frameworks like Tensorflow,
-Researching of feature importance methods,
-Monitoring and analysis of model performance,
-Reporting on performance evaluations and designing dashboards,
-Researching new methods for data analysis (Synthetic Data Generation),
-Researching on dimensionality reduction methods (tSNE,UMAP,PCA),
-Deploying and adjusting traffic of online ML models in a live environment

Instructor(Python) | *Logiscool*   09/2022 - 03/2023

Delivered introductory and intermediate-level Python lessons to children, focusing on the fundamental principles of coding.

Instructor(Coding and Robotics) | *T3 Vakfı*   09/2022 - 12/2022

Conducted practical training sessions in robotics and programming, equipping children with essential technological and coding skills.

Project Intern | *Istanbul Medipol Universitesi Hastanesi*   08/2022 - 09/2022

Reconstruction, processing, and segmentation of cardiac MR images were performed using Python libraries.

Researcher Intern Teknolojileri | *Argenit Akıllı Bilişim*   02/2022 - 09/2022

TUBITAK 2247-C Intern Researcher Scholarship Program - Microscope image analysis was conducted, and algorithms were optimized in Python using libraries such as PyTorch and TensorFlow.

Information Technology Intern | *Sanayi ve Teknoloji Bakanlığı*   09/2021 - 10/2021

A desktop application was developed using C# and MySQL for solving transportation problems for employees

Machine Learning Intern | *Obase Bilgisayar ve Danışmanlık Hizmetleri*   08/2021 - 09/2021

Preprocessing were performed for a handwritten text recognition project in summer internship

Software Engineer Intern | *Deka Technology*   08/2019 - 10/2019

The fundamentals of the Java language were reviewed, and a desktop application was developed using JSON

Instructor(Coding) | *T3 Vakfı-Bilim Üsküdar*   06/2019 - 07/2019

The fundamental principles of coding were introduced to children through simplified programming applications.

Volunteer

Executive Board Member | *Google Developer Student Club Medipol*   09/2020 - 09/2022
Events were organized to bring university students together with experts in the field to discuss innovation, technology,
    and coding.

Volunteer | *T3 Vakfı-Teknofest*   09/2019 - 09/2019
 Juries who evaluated Teknofest projects were supported, and students were coordinated.

Projects

Segmentation of the soma on the bright field microscopy images | *Python, MATLAB, Unix Shell*   2021-2022
-Analyzed and segmented the neuron soma from unlabeled bright field microscopy images using detection and
segmentation algorithms.
-This project was accepted by Tübitak-2209.

Hand Gesture Based Device Control | *Python,Nvidia Jetson,OpenCV*   2022-2023
-Hand authentication and hand gesture-based device control in the medical domain.
- A side project with similar content was adapted from Nvidia Jetson

Publications

Preprint-Effects of Using Synthetic Data on Deep Recommender Models' Performance | June 2024

Researched strategies to tackle data imbalance in recommender systems using synthetic data generation techniques.
Evaluated 6 different methods for augmenting datasets with synthetic negative samples, showing consistent improvements
in AUC scores and emphasizing the potential of data augmentation to enhance recommendation performance.
https://arxiv.org/abs/2406.18286

Interest

Machine learning, Data Science, Deep learning, Artifical intelligence, Image processing, Medical imaging, Photography