



Ayşın Tümay

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RESEARCH INTEREST

- Machine Learning
- Data Science
- Convex Optimization
- Data Analysis

EDUCATION

2015-2019

ANKARA ATATURK ANATOLIAN HIGH SCHOOL

- Science/Mathematics Student with Graduate Grade: 97.38/100

2019-PRESENT

IHSAN DOGRAMACI BILKENT UNIVERSITY

- CGPA 3.81/4
- Ranked 9 among 158 students
- %50 Scholarship by OSYM Placement
- Expected graduation date: 06/2024

Projects

- Digital FPGA Piano for Beginners, Bilkent University
- Design of Analog Multiplier with BJTs
- Song Recommendation System for Spotify Playlists with Machine Learning
- Magnetically Levitated Lamp
- Image Reconstruction
- Family Feud: A Commonsense Question Answering Game
- Hierarchical Ensemble-Based Feature Selection for Time Series Forecasting
- Wind Energy Production Forecasting

RESEARCH

AUG 2021

Undergraduate Research Assistant at UMRAM, Bilkent University

- Practiced Deep Learning methods for detecting brain illnesses in MRI scans.

AUG 2022-PRESENT Supervised by Prof. Dr. Suleyman Serdar Kozat

- Developing state-of-the-art algorithms for sequential data with GBMs.

EXPERIENCE

JUN 2022

ASELSAN, RADAR AND WARFARE SYSTEMS, INTERN

- Practiced different tools and methods for geolocation detection of radars using warfare systems in MATLAB.

AUG 2022

DATABOSS SECURITY&ANALYTICS, INTERN

- Practiced Machine Learning techniques on Time-Series and Spatio-Temporal data using Python.

DEC 2022-PRESENT DATABOSS SECURITY&ANALYTICS, MACHINE LEARNING RESEARCHER

- Working on sequential data to build state-of-the-art Machine Learning algorithms using Python.

PUBLICATIONS

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- **A. Tumay**, M. E. Aydin, S. S. Kozat. "Hirearchical Ensemble-based Feature Selection for Time Series Forecasting IEEE Transactions on Signal Processing," Submitted, 2023.

SKILLS

Programming	• Python,VHDL, MATLAB, Assembly 8051
Electronics	• LTSPice, Proteus
Others	• Git, LaTeX, MS Office applications
Languages	• Turkish, English (proficient), German (beginner)

ACHIEVEMENTS

SEP 2022 5TH PLACE AT INVENT ANALYTICS DATA ANALYSIS CHALLENGE

- Trained and tested a Machine Learning model to forecast the sales amount of a clothing brand.

MAY 2023 3RD PLACE AT IPSOS DATATHON

- Solved a case study about predicting a company's market share by trend analysis using ARIMA and Linear Regression.

EXTRA-CURRICULAR ACTIVITIES

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- Active member at Young Entrepreneurs Society, and IEEE Student Branch.
 - Ankara Start-up Summit committee member, 2019, 2020.
 - Guitar player at high school orchestra.

HOBBIES

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- Guitar playing for 10+ years, Amateur windsurfing, Volleyball