



Mustafa Gümüştaş

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ABOUT ME

A final-year Astronomy and Space Science student at Istanbul University, with three years of experience in data science, machine learning, and computer vision. Proven ability in programming languages, primarily Python, and practical experience in statistical analysis and algorithm development from a TUBITAK-funded research internship. Passionate about leveraging machine learning to interpret complex datasets and seeking a challenging role to further apply these skills.

WORK EXPERIENCE

15/09/2021 – 15/03/2022 Istanbul, Türkiye

RESEARCH DATA SCIENTIST ISTANBUL UNIVERISTY

As a STAR researcher for TUBITAK, I worked with Assoc Prof. Dr. Funda Bostanci on "Gamma-ray Bursts With Extended Emission". My responsibilities included rewriting IDL code into Python and performing statistical analysis on GRB data using Fermi and Swift satellites.

Business or Sector Professional, scientific and technical activities | **Department** Astronomi ve Uzay Bilimleri

08/2020 – 06/2022 İstanbul, Türkiye

VICE CHAIRMAN IU ROCKET AND SPACE CLUB

I manage the organization of events and the members' activity in projects. I keep contact with members and get feedbacks, then open the subjects in the meetings. Not only that, but I help members to find a place where they can make what they imagined in our teams.

Also, I had coded our rocket's control board and some other components. My other mission was doing analysis with ANSYS to get better at structural design.

EDUCATION AND TRAINING

01/10/2018 – CURRENT İstanbul, Türkiye

ASTRONOMI VE UZAY BİLİMLERİ İstanbul Üniversitesi

- Profoundly studied advanced physics, including quantum mechanics, electromagnetic theory, and differential equations.
- Acquired strong mathematical skills, enabling complex problem-solving and data analysis.
- Developed expertise in statistical methods, vital for interpreting complex data sets.
- Applied mathematical modeling to derive insights from astronomical observations.
- Collaborated on research, refining teamwork, communication, and presentation abilities.

Skills:

- Advanced physics knowledge, applying fundamental principles to astronomical phenomena.
- Proficient in mathematical modeling, problem-solving, and data analysis.
- Expertise in statistical methods, extracting insights from complex data.
- Skilled in data visualization and software tools for analysis.
- Effective communication of technical concepts to diverse audiences.

Field of study Natural sciences, mathematics and statistics | **Type of credits** 4 | **Number of credits** 2.99

PROGRAMMING CS50

LANGUAGE SKILLS

Mother tongue(s): **TURKISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	B2
GERMAN	A1	A1	A1	A1	A1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user***DIGITAL SKILLS**

Programming

Python (matplotlib, pandas, numpy, etc) | Flutter Dart | SQL | C | Cloud platform: AWS, GCP etc. | Machine Learning | PyQt5 | LaTeX

Computer Skills

Linux | Git | Microsoft Office, Microsoft Word, Microsoft Excel, Outlook, Facebook, Google

Electronics

Arduino | Raspberry Pi

Design

Fusion 360 | AutoCAD | Adobe Photoshop, Adobe Premiere | ANSYS

ADDITIONAL INFORMATION

PROJECTS

10/2022 – CURRENT

Real-time Face Recognition Using Deep Learning Developed a real-time face recognition system utilizing deep learning techniques to identify and label individuals in a live video stream.

- Employed transfer learning with MobileNetV2 architecture to create a robust model for face recognition.
- Curated a dataset containing images of a specific individual and trained the model to recognize their face with high accuracy.
- Utilized TensorFlow and Keras for model development and image preprocessing.
- Designed a graphical user interface (GUI) using Tkinter to showcase real-time face recognition results.
- Incorporated advanced techniques, including data augmentation, dropout, and learning rate scheduling, to enhance model performance and generalization.
- Employed webcam integration for capturing live video feed, allowing the system to label the known individual in real time while categorizing others as "unknown."
- **Achieved** [insert accuracy/accuracy range] accuracy on the test dataset, showcasing the model's effectiveness in practical scenarios.

This project demonstrates my proficiency in deep learning, model development, and real-time computer vision applications, emphasizing both technical skills and practical implementation for face recognition tasks.

Link <https://github.com/mustafagumustas/screen-time>

16/05/2022 - CURRENT

Stock Manager App Stores and work shops needs to analyze their stocks and keep track of their money. With this app, managers can do all of them with easy interface side of analyzes, also it has point of sale combined with it.

Link <https://github.com/mustafagumustas/StockManager>

08/2021 - CURRENT

Radio Telescope Under Rocket and Space clubs "Cubesat" project I was incharge of communication. So I made two antennas try to get data from satellites. I build "V Dipole" and "QFH" antennas and got images from weather satellites successfully. Then I switched to "Radio Astronomy" and currently working on getting images of "Milky Way" with other kind of antennas.

Link <https://www.linkedin.com/feed/update/urn:li:activity:6863831286390259712/>
