

Taha Emre Pamukçu

Date of birth: 22/11/2003 | **Place of birth:** Istanbul, Türkiye | **Nationality:** Turkish | **Phone number:** (+90) 05523274757 (Mobile) | **Email address:** taha@pamukcu.net

EDUCATION AND TRAINING

03/10/2022 – CURRENT İstanbul, Türkiye
BACHELOR OF SCIENCE IN ELECTRONIC AND COMMUNICATION ENGINEERING Yıldız Technical University
Website www.yildiz.edu.tr | **Field of study** Machine Learning | **Final grade** 3.52 | **Level in EQF** EQF level 6

WORK EXPERIENCE

ADVANCED SYSTEMS AND INVENTION LABORATORIES – ISTANBUL, TÜRKİYE
VOLUNTEER RESEARCH ASSISTANT – 05/02/2023 – CURRENT

- Conducted machine learning and image processing tasks for ongoing research projects
- Collected and organized data from hospitals and industrial environments (factories)
- Contributed to the writing of research papers and academic articles
- Took responsibility for managing the undergraduate lab environment
- Supervised and mentored new students, including onboarding, task assignment, and tracking homework progress

MODERN SMART TECHNOLOGIES AND INFORMATION CLUB – ISTANBUL, TÜRKİYE
VICE PRESIDENT – 08/09/2024 – 27/06/2025

- Assisted in leading and organizing student-led activities focused on smart technologies and information systems
- Coordinated teams and supported the planning of seminars, and collaborative projects
- Supported new members and helped foster a collaborative environment within the club
- Took on auditing and supervisory responsibilities within the club's executive structure in 2025

DT CLOUD – ISTANBUL, TÜRKİYE
INTERN – 23/06/2024 – 11/08/2024

- Cloud computing basics
- Server management
- Linux fundamentals and command-line usage
- Docker

COACH MOTION – ISTANBUL, TÜRKİYE
INTERN – 24/06/2025 – 18/08/2025

LANGUAGE SKILLS

Mother tongue(s): **TURKISH**
Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B1	B1	B2
GERMAN	A2	A2	A1	A1	A1

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

PUBLICATIONS

2024
Comprehensive Study on Lumbar Disc Segmentation Techniques Using MRI Data

Model Development: Designed and trained deep learning models, including ResUnext and TransUNet, for lumbar disc segmentation using MRI data.

Technical Writing: Authored the technical sections of the research paper, detailing methodologies, model architectures, and evaluation metrics.

Performance Evaluation: Assessed model performance using metrics such as Pixel Accuracy, Mean Intersection over Union (Mean IoU), and Dice Coefficient.

Authors: Serkan Salturk, Irem Sayin, Ibrahim Cem Balci, Taha Emre Pamukcu, Zafer Soydan, Huseyin Uvet | **Publisher:** Arxiv

2024

CNN Based Detection of Cardiovascular Diseases from ECG Images

Processed raw ECG data by converting them into signal format suitable for deep learning analysis.

Authors: Irem Sayin, Rana Gursay, Buse Cicek, Yunus Emre Mert, Fatih Ozturk, Taha Emre Pamukcu, Ceylin Deniz Sevimli, Huseyin Uvet | **Publisher:** Arxiv