KAOUTHER MOUHEB

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Research Interest

Medical Image Analysis and AI with a focus on Deep Learning applied to Medecine.

EDUCATION

University of Girona, University of Burgundy, University of Cassino M.Sc. Medical Imaging and Applications MaIA, Grade: 29,52/30, Rank: 1/25

European Union 2021 - 2023

Erasmus Mundus Joint Master Degree. [Website]

Eskisehir Technical University

Eskisehir, Turkey

B.Sc. Computer Engineering, GPA: 3.99/4, Valedictorian [Website]

2016 - 2021

National Mathematics High School Mohand Mokhbi

Algiers, Algeria

Baccalaureate in Mathematics, Grade: 18.55/20, Valedictorian

2013 - 2016

Honors and Awards

Datacare AI Santé Datathon **Health AI Award** winner team

Santenov & Partners (2022)

Erasmus Mundus Grant for MaIA joint master degree (23 awardees out of 600 applicants) (2021)

First Class Honors for graduating as valedictorian of the Engineering Faculty of ESTU (2021)

Best Graduation Project by Eskisehir Chamber of Commerce, 14th Graduation Projects Fair (2021)

Erasmus+ Scholarship, an exchange semester at Liepaja University (5 awardees/department) (2020)

High Honors Student for 8 semesters by the dean of ESTU Engineering Faculty

YTB Turkiye Scholarships for undergraduate studies (5k awardees out of 100k applicants) (2016)

Presidential Honorable Mention for ranking fifth of Algeria in the national BAC exam (2016)

EXPERIENCE

ViCOROB Lab, University of Girona

Girona, Spain

Graduate Research Intern

Jul - Aug 2022

- Supervised by Robert Marti.
- Worked with a team on Breast Density Estimation using Federated Learning.

TUBITAK Software Technologies Research Institute

Ankara, Turkey

Candidate Researcher

Jan 2021 - Aug 2021

- Project: Expenses Management Systems of the Turkish Ministry of Treasury and Finance.
- Participated as a Full-Stack developer in designing a software system based on the micro-service architecture following the domain driven design paradigm.

ESTU Electrical and Electronics Engineering Department

Eskisehir, Turkey

Undergraduate Researcher

Sep 2020 - Jan 2021

- Supervised by Cihan Topal.
- Worked on developing an automatic system for face liveness detection during online meetings based on unisotropic diffusion and deep learning.

TUBITAK Software Technologies Research Institute

Ankara, Turkey

Software Development Intern

Jun 2020 - Aug 2020

• Developed an event management system for the institute with a Spring Boot based backend, a React-based web front-end and a PostgreSQL database.

Dypix

Boumerdes, Algeria

 $Web\ Development\ Intern$

Jun 2019 - Aug 2019

• Developed a web-based interactive educational tool for children using Laravel, MySQL and Bootstrap.

Publications

Mouheb, K., Yürekli A., Yılmazel, B. "TRODO: A public vehicle odometers dataset for computer vision." Data in Brief 38 (2021): 107321.

Mouheb, K., Yürekli, A., Dervisbegovic, N., Mohammed, R.A., Yılmazel, B. "EduFERA: A Real-Time Student Facial Emotion Recognition Approach". Avrupa Bilim ve Teknoloji Dergisi (2021): 690-695

Programming: Python, Java, C++, MatLab, R, JavaScript, PHP.

AI & Computer Vision: PyTorch, Sci-kit Learn, Pillow, OpenCV, Keras, Simple ITK.

Web & Mobile Development: Spring Boot, Laravel, Flask, ReactJS, Bootstrap, Android, Flutter.

Database Management: MySQL, SQLite, PostgreSQL, SQL.

PROJECTS

Skin Lesion Segmentation and Classification

We addressed the tasks of skin lesion segmentation and classification using two approaches, a classical pipeline using advanced image processing techniques and traditional machine learning, and a deep learning-based method. [Code]

Alzheimer's Patient Classification

A comparative study of different statistical learning approaches on 3 different tasks of Alzheimer's patient classification based on MRI and gene expression data. The best models were submitted for the Statistical Learning Challenge at Cassino University. Challenge Winner for the ADCT task. [Code]

Heart Axes Detection

Worked within a team during the third "Datacare AI Santé Datathon" on detecting the main axes of the heart from MRI images by combining deep learning-based segmentation and image processing techniques. Supervised by Sarah Leclerc and Alain Lalande.

SMS Spam Filter for Turkish

A Machine Learning Method for SMS spam detection for the Turkish Language. [Code]

CERTIFICATES

AI Programming with Python Nanodegree

Udacity (2019)

Android Basics Nanodegree by Google

Udacity (2018)

LANGUAGES

Arabic: Native.

English: Advanced, IELTS 8.0.

French: Advanced.

Turkish: Advanced, C1 TOMER Certificate.