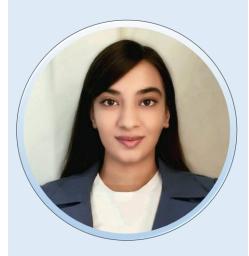
SAMIRA ABEDINI



Address:

Saarbrücken, Germany

Email address:

samiraabedini150@gmail.com

Phone number:

(+49) 17687132655

Personal Website:

https://samiraabedini.github.io/

LinkedIn:

https://www.linkedin.com/in/samiraa bedini-ai/

GitHub:

https://github.com/SamiraAbedini

EDUCATION

Master of Science in Bioinformatics

October 2024 - now

Saarland University, Saarland, Germany

Selected Courses: Neural Networks, Elements of Machine Learning

Bachelor of Science in Biomedical Engineering

(GPA: 16.55/20)

University of Tabriz, Tabriz, Iran

Selected Courses: Medical Information Technology, Computer Programming, Mathematics 1 and 2, Biological and Computational Intelligence, Biostatistics, Biophysics, Biochemistry, Medical Physics Final Project: "Designing a Digital Feedforward Dynamic Range Compressor for hearing aids"

(Grade achieved: 20/20)

WORK EXPERIENCE

Research Assistant

December 2023 - September 2024

September 2017 – September 2021

Cognitive Neuroscience Lab., Tabriz University, Tabriz, Iran

- Conducted research on Alzheimer's disease prediction in patients' offspring
- Built and evaluated machine learning models for predictive analysis

Mathematics teacher (part-time)

April 2020 – September 2023

Hallaj Mathematics Academy, Tabriz, Iran

- Guided high school students in mastering mathematics concepts to excel in university entrance exams.
- Designed and conducted problem-solving sessions to enhance critical thinking and analytical skills.

Biomedical engineer

December 2020 - January 2023

R&D team, BMGs, Tabriz, Iran

- Analyzed medical data (ECG, EEG) using machine learning techniques
- Programmed touch-screen LCDs for medical devices

INTERNSHIP

R&D team, BMG, Tabriz, Iran

August 2020 -- December 2020

Project: Designing a piezoelectric energy harvesting system for leadless heart pacemakers, transforming cardiac motion into sustainable electrical energy. (Grade achieved: 20/20)

PUBLICATION

Machine Learning

in

February 2024 - ongoing

High-Risk Offspring (*under preparation)

Authors: Samira Abedini, Farhad Farkhondeh, Soomayeh Heisiattalab

- Collecting 64 channels resting-state EEG data from two groups of subjects (offspring of Alzheimer's patients, and control group) in both eye-open and eye-close situations
- Preprocessing and creating a dataset from calculated EEG Power Spectrum Density, Relative Power, and Absolute Power of each subject
- Performing statistical analysis and training machine learning models on the dataset to diagnose the early biomarkers of Alzheimer's disease

COURSES AND CERTIFICATES

R-Programming

October 2024 - ongoing

DataCamp

Python for Genomic Data Science (Genomic Data Science Specialization) October 2023 – January 2024 Coursera, Johns Hopkins University

Introduction to Genomic Technologies (Genomic Data Science Specialization) October 2023 – January 2024 Coursera, Johns Hopkins University

AI for Medical Diagnosis (AI for Medicine Specialization)

June 2023 - September 2023

Coursera, Deeplearning.AI

May 2023

Sharif University of Technology

Machine Learning Specialization

July 2022 - October 2022

Coursera, Deeplearning.AI

An Intuitive Introduction to Probability

July 2022

Coursera, Karl Schmedders

Artificial intelligence school (ML, DL)

January 2022 - March 2022

U-Tech Academy, University of Tehran

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SELECTED PROJECTS

ADHD diagnosis from rs-fMRI data using deep learning methods

(Using Python) Dataset: ADHD-200 NYU dataset

Chest X-Ray Medical Diagnosis with Deep Learning

(Using Python) Dataset: ChestX-ray8 dataset

June 2023 - September 2023

June 2023 - September 2023

July 2023

November 2023 - December 2023

Brain Tumor Auto-Segmentation for Magnetic Resonance Imaging

(Using Python) Dataset: Decathlon 10 Challenge dataset

Object detection project: Detecting Hexbug heads in videos

(Using Python) Dataset: AnkiLab(Traco Repository) Hexbugs dataset on GitHub

Object detection project: Real-time Vehicle detection, tracking, and counting (YOLOv8) July 2023

(Using Python, YOLOV8) Dataset: Roboflow dataset

LANGUAGE SKILLS

English: C1

* TOEFL exam Score: 104 (Reading: 28 Listening: 28 Speaking: 23 Writing: 25) Test date: April 12, 2023

German: A2 Turkish: C1

Mother tongue: Azerbaijani, Persian

SKILLS

Python Programming	•••••	Matplotlib	•••••
R Programming	••0000	Streamlit	••••
C++	••••	Jupiter Notebook, VS Code	•••••
TensorFlow	••••	GIT and GitHub	•••••
Scikitlearn	••••00	PyTorch	•••000
Pandas	•••••	MongoDB	•••000
NumPy	••••	MATLAB	•••••

•••••

Ongoing

MEMBERSHIPS

Member of Ayaz astronomical society

October 2019 – June 2020

Board member of student scientific association of biomedical engineering

Faculty of Electrical and Computer Engineering, University of Tabriz

Member of the executive team of the biomedical engineering conference

September 2019

University of Tabriz

REFERENCES

Associate Professor at the University of Tabriz

Name: Soomaayeh Heysieattalab Phone number: +989141483299 E-Mail: s.heysiyattalab@tabrizu.ac.ir

heysieattalab@gmail.com

Associate Professor at the University of Tabriz

Name: Karim Abbasian Phone number: +989143203099

Email:

k_abbasian@tabrizu.ac.ir