

Mohammad Yousefi

Data Science Researcher

✉ mohammad99yousefi@gmail.com

☎ +98.993.784.4084

🌐 [linkedin.com/in/mohammadys](https://www.linkedin.com/in/mohammadys)

SUMMARY

I am a passionate and detail-oriented **Artificial Intelligence and Data Science** researcher with a strong foundation in **deep learning, computer vision, and machine learning**. My research interests span across **medical imaging, radar-based human detection, and multimodal sensor fusion**. I hold an M.Sc. in Artificial Intelligence from **Bahçeşehir University**, where my thesis focused on developing a **multi-modal deep learning model** for information extraction from image-sensor datasets. I have published and presented my work at **IEEE conferences**, and I am particularly interested in applying AI to real-world challenges that enhance **human well-being and safety**, such as healthcare, anomaly detection, and autonomous systems.

EDUCATION

MSc. Artificial Intelligence

Bahçeşehir University

Oct 2022 - Nov 2024

CGPA: 3.71 / 4.0

BSc. Computer Engineering

University of Guilan

Sep 2017 - Aug 2021

CGPA: 16.84 / 20 (3.44 / 4.0)

LANGUAGES

English

IELTS Band Score 7.5 – Listening: 8, Reading: 7.5, Writing: 6.5, Speaking: 7

05/24/2024

English

Graduate Record Examinations (GRE) – Quant: 164, Verbal: 145, Analytical Writing: 3.5

08/09/2022

PUBLICATIONS

- **Berjin, Emine, and Yousefi, Mohammad.** (2024). *"Neural Network-Based Human Detection Using Raw UWB Radar Data"*. In Proceedings of the Microwave Theory and Technology in Wireless Communications (MTTW). DOI: <https://doi.org/10.1109/MTTW64344.2024.10742175>
- **Yousefi, Mohammad, and Berjin, Emine.** (2025). *"Improving the Robustness of CNN-Based Human Detection in Cluttered Settings Using Multiple Raw UWB Radar Datasets"*. In Proceedings of the International Humanitarian Technology Conference (IHTC). DOI: <https://doi.org/10.1109/IHTC61819.2024.10855134>

RELEVANT SKILLS

Programming Languages: Python, SQL, C++, Java, JavaScript

Softwares: Jupyter Notebook, Matlab, SQL Server, Tableau, VSCode, Wireshark

Libraries: Tensorflow, PyTorch, Matplotlib, Tensorboard, Pandas, Numpy, Scikit-learn, OpenCV

Operating Systems: Ubuntu, Kali, Manjaro, Raspberry Pi OS

Other: Git, Latex, Shell Scripting

PROJECTS

Pathology Visual Question Answering (VQA)

Dec 2023

Implemented a deep learning model to analyze pathology images and answer related questions, achieving a 5% performance improvement over baseline models.

Transformer-based Machine Translation

Mar 2025

Developed a Transformer model for English-German translation using 10% of WMT14, achieving a BLEU score of 46.04.

Brain Tumor MRI Classification

Apr 2024

Designed a custom CNN for 4-class tumor classification, reaching over 94% accuracy.

Fine-Tuning LLMs for Text Classification

Apr 2024

Fine-tuned DistilBERT with LoRA (rank=4, alpha=32) on IMDB dataset; achieved 89.2% accuracy.

Real-time Emotion Detection

Dec 2023

Developed CNN and VGGNet models on FER2013, achieving 81% accuracy with 54% fewer parameters than state-of-the-art.

Malware Detection (UNSW-NB15)

Dec 2023

Built DNN, GRU, and Random Forest models; achieved up to 95% accuracy.

LICENSES AND CERTIFICATES

Deep Neural Networks with PyTorch (IBM)

Sep 2022

Machine Learning (Stanford University)

Mar 2022

Deep Learning Specialization (5 courses) (Deeplearning.ai)

Jul 2022

Applied Data Science in Python Specialization (5 courses) (University of Michigan)

Feb 2021

WORK EXPERIENCE

IT Support Intern

Jan 2021 – Jan 2023

Pishgaman-e Guilan Export Development: Managed computer network security, developed internal software improving efficiency by 50%, and prepared project documentation with a 93% approval rate.

REFERENCES

Prof. Dr. Mehmet Raşit Eskigioğlu, Thesis Supervisor – rasit.eskicioglu@bau.edu.tr

Prof. Dr. Suzan Ureten, Course Instructor – suzan.ureten@bau.edu.tr

Prof. Dr. Saeed Karamzadeh, Supervisor – karamzadeh@itu.edu.tr

Prof. Dr. Ece Gelal Soyak, Supervisor – ece.gelalsoyak@bau.edu.tr