

# Faezeh Sarlakifar

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## RESEARCH INTERESTS

- Machine Learning
- Computational Biology
- Applied AI in Health

## EDUCATION

**M.Sc. in Artificial Intelligence**  
University of Bologna  
Department of computer science and engineering  
Cumulative GPA: 4/4

Sep. 2024 – Ongoing  
Bologna, Italy

**B.Sc. in Computer Engineering**  
Shahid Beheshti University  
Department of computer science and engineering  
Last Two Years GPA: 3.61/4

Sep. 2019 – Feb. 2024  
Tehran, Iran

## RESEARCH AND PUBLICATION

**Research Assistant**  
Deep Learning and Bio-Computing Lab. of Shahid Beheshti University & NIGEB

Published 9 July 2025  
Tehran, Iran

- **Published:** Biology Methods and Protocols, an Oxford University Press (OUP) Journal
- Publication DOI: [\[link\]](#)
- Title: **AllerTrans: A Deep Learning Method for Predicting the Allergenicity of Protein Sequences.**
- Proposing an ensemble model for predicting the allergenicity of protein sequences using different protein language models (pLM) for feature extraction, and a deep neural network model with advanced techniques for allergenicity prediction.
- Supervisors: [Dr. Hamed Malek](#), [Dr. Najaf Allahyari Fard](#)

**Research Assistant**  
Robotics & Intelligent Autonomous Agents (RoIAA) Lab. of Shahid Beheshti University

Sep. 2024 – Feb. 2025  
Tehran, Iran

- **SELECTED:** Top Conference Paper at ICAI 2025 (1st International Conference on Artificial Intelligence in Iran)
- Under publication in Journal of Innovations in Computer Science and Engineering (JICSE)
- ArXiv DOI:[\[link\]](#)
- Title: A Deep Reinforcement Learning Approach to Automated Stock Trading, using xLSTM Networks.
- Proposing an enhanced DRL model using PPO and the newly introduced xLSTM network for automated stock trading.
- Supervisor: [Dr. Armin Salimi-Badr](#)

**Research Assistant**  
Natural Language Processing Lab. of Shahid Beheshti University

Apr. 2023 – Feb. 2024  
Tehran, Iran

- **PUBLISHED:** International Journal of Information and Communication Technology Research (IJICTR)
- Publication DOI: [\[link\]](#)
- Title: EmoRecBiGRU: Emotion Recognition in Persian Tweets with a Transformer-based Model, enhanced by Bidirectional GRU.
- **Awarded** the IEEE Iran Section certificate for winning second place in the ParsiAzma National competition.
- Supervisor: [Dr. Mehrnoush Shamsfard](#)

## SKILLS

ML/DL Frameworks & Libraries	Programming Languages	Others
PyTorch	Python	HTML, CSS
TensorFlow	Java	Flask
Scikit-Learn, Pandas, Numpy	C++	L <sup>A</sup> T <sub>E</sub> X

## PROJECTS

- Protein Sequence Allergenicity Prediction [\[link\]](#) | Applied Deep Learning in Bioinformatics  
Classifying proteins as allergen/non-allergen using protein language models and deep learning techniques with PyTorch.
- Persian Text Emotion Recognition [\[link\]](#) | Natural Language Processing  
Fine-tuning the XLM-RoBERTa model with a bidirectional GRU layer on Persian tweets for emotion recognition.
- Probabilistic Diabetes Risk Assessment [\[link\]](#) | Bayesian Networks in Healthcare  
Developing a reliable and interpretable Bayesian Network model for diabetes risk assessment using PGMpy.
- Neuromatch Project [\[link\]](#) | Computational Neuroscience, Decision Making  
Modeling human perceptual inference with the Drift Diffusion model compared to Bayesian predictions, using PyDDM.
- Human Face Emotion Recognition [\[link\]](#) | Image Processing  
Recognizing facial emotion from images using transfer-learning and self-supervised learning techniques using PyTorch.
- Prompt recovery by Gemma fine-tuning | LLM Fine-tuning  
Fine-tuning Gemma-2B and 7B for LLM prompt recovery using the LoRA technique (Kaggle Competition).

## VOLUNTEERING ACTIVITY

- **Data Analyst** *Neuromatch Company, Los Angeles, USA*  
Role: Analyzing post-course surveys and proposing effective ideas for future course improvements.  
Collaborating with [Viviana Greco](#) and [Courtney Dean](#) *Oct. 2024 – Feb. 2025*
- **Committee Member in Artificial Intelligence Association** *Shahid Beheshti University, Tehran, Iran*  
Content provider & Machine Learning tutor in summer schools; also host paper presentation sessions.  
Faculty Advisor: [Hamed Malek](#) *Jul. 2022 – Sep. 2024*

## HONORS AND AWARDS

- Top Conference Paper *1st International Conference on Artificial Intelligence in Iran (ICAI), Feb. 2025*
- Among Top 3 Best B.Sc. Thesis Projects *Shahid Beheshti University, Nov. 2023*
- 2<sup>nd</sup> Place in ParsiAzma Competition on Persian Text Emotion Recognition *IEEE Iran Section, Oct. 2023*

## TEACHING EXPERIENCES

- Academic Teaching Assistance** *Sharif University of Technology*  
· Machine Learning **Graduate** Level Course | Course Materials: [\[link\]](#) | [Dr. Ali Sharifi-Zarchi](#) *Sep. 2024 – Jan. 2025*
- Academic Teaching Assistance** *Shahid Beheshti University*  
· Deep Reinforcement Learning **Graduate** Level Course | [Dr. Armin Salimi-Badr](#) *Mar. 2024 – Jul. 2024*  
· Autonomous Mobile Robots **Graduate** Level Course | [Dr. Armin Salimi-Badr](#) *Sep. 2023 – Feb. 2024*  
· Fundamentals of Robotics course | [Dr. Armin Salimi-Badr](#) *Sep. 2023 – Feb. 2024*  
· Introduction to Machine Learning course | [Dr. Hamed Malek](#) *Feb. 2023 – Jun. 2023*  
· Artificial Intelligence course (3 semesters) | [Dr. Salimi-Badr](#) & [Dr. Shamsfard](#) *Sep. 2021 – Jun. 2023*  
· Introduction to Artificial Intelligence course (3 semesters) | [Dr. Shahabedin Nabavi](#) *Sep. 2022 – Feb. 2024*  
· Theory of Machines and Languages course (2 semesters) | [Dr. Ramak Ghavamizadeh](#) *Feb. 2021 – Jan. 2022*  
· Advanced Computer Programming | [Dr. Mojtaba Vahidi-Asl](#) *Feb. 2021 – Jun. 2021*  
· Fundamental of Computer and Programming course (2 semesters) | [Dr. Sadegh Aliakbary](#) *Sep. 2020 – Feb. 2021*  
· Digital Logic Circuits course (2 semesters) | [Dr. HamidReza Mahdiani](#) *Sep. 2023 – Jun. 2024*

## INTERNSHIP & SUMMER SCHOOLS

- Neuromatch Academy Computational Neuroscience Program [\[link\]](#) | remote *Summer 2023*  
3-week intensive computational neuroscience traineeship program. *Neuromatch Academy, Los Angeles, USA*
- Natural Language Processing Laboratory Summer School [\[link\]](#) | on-site *Summer 2022*  
*Shahid Beheshti University, Tehran, Iran*