AMIR RAJABI HESHIN

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Research Interests

- Brain Network Modeling
- Complex Network Analysis
- AI in Neuroscience

Current Research

Reviewing recent studies and reproducing published results in brain network modeling to examine their underlying assumptions and methods.

Conducting computational experiments to assess how modeling choices influence simulated brain dynamics.

Education

- B.Sc. in Computer Engineering, University of Tehran (2021-2025)
  - GPA: 17.73/20
  - Class Rank: 7th out of 53 students
  - B.Sc. thesis: Emotion Recognition using EEG signals on the FACED dataset (Dr. Aghababa)
- Experimental Science Diploma, National Organization for Development of Exceptional Talents (Sampad)

Research Projects

- **EEG Emotion Recognition (B.Sc. Thesis):** Developed deep learning models (CNN, LSTM) for emotion classification on EEG data (FACED dataset).
- **Handwritten Multi-Digit Recognition:** Designed an RNN-based architecture for multi-digit handwritten number recognition on the CAR-A/B datasets.
- **Project Lighthouse:** Proposed a visual task-prioritization system integrating user interaction analytics.

Academic Activities & Achievements

- Ranked 17th nationwide in M.Sc. Entrance Examination in Information Technology.
- **Undergraduate Courses Teaching Assistant**
  - Artificial Intelligence (Head TA) - Dr. Fouladi, University of Tehran - Fall 2024
  - Logic Circuits - Dr. Aghababa, University of Tehran - Fall 2024
  - Electric Circuits - Dr. Aghababa, University of Tehran - Fall 2024
  - Fundamentals of Computer and Programming (Head TA) - Dr. Ghiasi, University of Tehran - Fall 2023
  - Advanced Programming - Dr. Ghiasi, University of Tehran - Spring 2023
  - Fundamentals of Computer and Programming - Dr. Ghiasi, University of Tehran - Fall 2022
- Served as a member of the editorial and executive staff for IPRIA 2023 and CYSP 2022–2024, contributing to LaTeX preparation of conference proceedings and event organization.

Work Experience

- **Software Engineer – Seagull Cybernetics (2023-2026)**
  - Developed Android and web applications with an emphasis on performance optimization and user experience.
  - Collaborated with a cross-functional team to design and implement backend services.
- **AI Research Intern – Roshan AI (Summer 2023)**
  - Worked on multi-digit handwritten number recognition and image preprocessing as part of an applied AI research project.

Technical Skills

- **Programming:** Python, Java, SQL
- **AI/ML Frameworks:** PyTorch, Scikit-Learn, TensorFlow, Keras
- **Data Analysis:** Pandas, NumPy, Matplotlib
- **Other:** Git, Linux, LaTeX

Selected Software Projects

- **Libz (Cloud Storage Optimizer):** Android app focused on optimizing Google Drive storage.
- **GrowUp –** Android application for task management & note-taking tool.
- **Inventory Management System:** A comprehensive inventory management system for large and small retail stores, featuring advanced product and user management capabilities.