

Alireza Esmailzadeh Mojdehi

ar.esmailzadehmojdehi@gmail.com
www.linkedin.com/in/ar-esmailzadehmojdehi
<https://github.com/ArEsMo2003>

EDUCATION

- B.Sc. in Computer Engineering
Islamic Azad University . Rasht , Guilan - Iran
Expected Graduation: June 2026

Relevant Coursework: Machine Learning, Data Structures, Algorithms, Software Engineering

RESEARCH EXPERIENCE

Research Volunteer | Multiple Research Initiatives, Islamic Azad University
April , 2022 – Present

- **Active Participation:** Contributed as a volunteer member in six short-term research initiatives across diverse fields including Artificial Intelligence, Human-Computer Interaction, Operating Systems, and Database Design.
- **Skill Development:** Gained hands-on experience in technical literature review, data collection, collaborative problem-solving, and academic writing for both reports and journal submissions.
- **Presentation & Communication:** Delivered bilingual presentations (English and Persian) on complex technical topics to academic audiences, demonstrating ability to communicate research findings effectively.
- **Key Achievement:** Applied this accumulated research expertise to co-author a comprehensive review paper on AI in Telemedicine, currently in its final drafting phase for submission to a peer-reviewed journal. This demonstrates my ability to commit to a long-term project and see it through to completion.

Selected Research Highlights:

- **First-author, Review Paper:** "The Necessity of Artificial Intelligence for Telemedicine"

- Islamic Azad University | Apr 2025 – Present
 - ed the literature review process, defining the scope and synthesizing findings from over 100 research papers
 - Took primary responsibility for drafting the entire initial manuscript and coordinating revisions based on feedback.
 - Focused on exploring the role of AI in remote healthcare, particularly for underserved regions.
 - The manuscript is in its final drafting phase for submission to a peer-reviewed journal.

- **AI in Industry Conference Project (Apple Face ID Technology)**

- 2022
 - Researched technical aspects of AI applications in industry; focused on Face ID's machine learning architecture.
 - **Role:** Delivered the final group presentation in English at the university conference.

- **Database Lab: Pharmacy Management System**

- 2023 | *Duration: 3 months*
 - Collaborated in a 6-member team to design and present a functional SQL-based database system.
 - **Role:** Managed data collection and sample dataset organization; supported query design.

- **Linux Kernel Research Group**

- 2023 | *Duration: 3 months*
 - Researched architecture and functionality of Linux shell and kernel components.
 - **Role:** Delivered technical presentation in English on system calls and process management.

PROJECTS

- **Java-based Movie Recommendation System** | Java

Developed a collaborative filtering recommendation engine to predict user preferences for films.

Keywords: Machine Learning, Data Processing, Algorithm Implementation

- **Python-based Paris Air Quality Analysis** | Python, Pandas, Matplotlib

Analyzed and visualized a real-world air quality dataset to identify pollution trends and correlations.

Keywords: Data Analysis, Data Visualization, Statistical Analysis

- **E-Collector Unreal Game** | Unreal Engine, C++

Designed and developed core game mechanics for a third-person collector game, focusing on character movement and interaction systems.

Keywords: Game Development, Software Architecture, System Design

TECHNICAL SKILLS

- Programming Languages:
Python (Proficient), Java (Proficient), HTML/CSS (Familiar)
- Frameworks & Tools:
Git, Scikit-learn, Pandas, NumPy, Godot, Unreal Engine
- Languages:
Persian (Native), English (Fluent), Turkish (Fluent), French (Intermediate)

TEACHING EXPERIENCE

Private Tutor | 2023 – Present

- Tutored Java programming to undergraduate students , focusing on OOP concepts and data structures.
 - Tutored English and Turkish languages to elementary-level students.
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