Rahmatollah **Ansari**

Graduate Student in AI, IUST

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Looking for a bigger challenge…
Highly motivated AI student with a strong background in problem-solving and team collaboration. Deeply passionate about advancing research in Artificial Intelligence, with a particular interest in NLP, Multimodal AI, and Large Language Models. I am eager to contribute to innovative research that pushes the boundaries of machine intelligence and helps bridge theory with practical impact. Committed to continuous learning, I thrive on exploring new ideas, implementing them, and working collaboratively in research labs to make meaningful scientific progress.

Research Interests

Natural Language Processing (NLP), Multimodal Artificial Intelligence, Large Language Models (LLMs), Machine Learning, Deep Learning, Representation Learning, Retrieval-Augmented Generation (RAG), Small Language Models (SLMs), Explainable AI (XAI), Graph Neural Networks (GNNs)

Education

Master's Degree, Artificial Intelligence
Iran University of Science and Technology, Oct 2025 - Sep 2027
Relevant coursework (in progress):
- **NLP**: Dr. Etemadi, Minaei (in parallel: Manning @ Stanford, repo: github.com/Rahmat-ML/IUST-NLP-Fall2025)
- **DL**: Dr. Mohammadi (in parallel: Soleimani @ SUT, repo: github.com/Rahmat-ML/IUST-DL-Fall2025)
- **ML**: Dr. Tahaei (in parallel: Zarchi @ SUT and Shirafkan @ Faradars, repo: github.com/Rahmat-ML/math-for-ml)

Bachelor's Degree, Computer Engineering
Hakim Sabzevari University, Sep 2020 - Nov 2024
Grade: 17.65 / 20 (**1st rank** in 2020 entrance of CE)
Activities and societies: University Olympiad team in 2023 and 2024, ICPC team in 2023 and 2024, University programming team in various competitions, Scientific Society of Computer Engineering, Center for mental health assistants, Sabzevar LUG (linux user group),

Diploma of Education, Mathematics and Physics
Imam Ali High School, Sep 2017 - Jul 2020
Grade: 18.57/20 (1st rank in mathematics and physics - graduated in 2020)
GPA of the final exam (Nationally coordinated): 17.58/20

Awards

- **The best student of the University (دانشجوی سرآمد دانشگاهی)**
  Hakim Sabzevari University, 1402 (2023-2024)
- **3rd place Student Relay Programming Contest | East Region**
  Dotin Company, Khatam University, May 2025
- **1st place Star programming Competition**
  Hakim Sabzevari University, Payam Noor University, May 2025
- **26th place ICPC2024 - West Asia region - Tehran site**

- **6th place of Space 6 - Programming competition**
  Sadjad University, Nov 2024
  Qualifying for the international final
- **21st place ICPC2023 - West Asia region - Tehran site**
- **7th place - Programming competition - Universities of Eastern Iran**
  Semnan University, Jan 2024

skills

Programming languages
Python, C++, Java, C, JS, Bash

Frameworks & Libraries
PyTorch, NumPy, Pandas, Matplotlib, FastAPI, Flask, Django, Node.js, Express, PyQt, Spring Boot

Academic & Research Skills
LaTeX, Research and Problem Definition, Academic Writing, Data Analysis and Visualization, Literature Review, Presentation Skills, Simplifying Complex Concepts, Reference Management (Zotero)

Software Engineering Concepts
Object-Oriented Programming (OOP), SOLID Principles, Design Patterns, RESTful APIs, Version Control, Agile Methodology, Clean Code, Algorithms & Data Structures, Basic Testing (Unit & Integration)

Databases & Tools
PostgreSQL, MySQL, MongoDB, Redis, Git, GitHub, Docker, Kubernetes, Postman, Linux, Arduino

Web Development
HTML, CSS, JavaScript, Component-Based Architecture, Single-Page Applications (SPA), Asynchronous Programming (AJAX, Fetch API, Axios), Regular Expressions (Regex)

Soft Skills
Problem-Solving, Team Collaboration, Creativity, Commitment to Tasks, Adaptability, Fast Learning, Effective Communication, English (B2)

Research and Teaching Experience

Teaching Assistant
Hakim Sabzevari University, Sep 2022 - June 2024
During four semesters, I was a teaching assistant for the courses "Basics of computer and programming" and "Algorithm Design" and helped teach more than 200 students. The professors of these courses were **Dr. Neamatollahi** and **Dr. Masoudifar**, respectively. This course gave me a brilliant view of the teaching side of a university professor.

Research Assistant
Dr. Taheri, Hakim Sabzevari University, Jul 2024 - Sep 2024
During this short summer period, in collaboration with Dr. Taheri, one of my former professors who taught both basic and advanced cloud computing courses, as well as a group of active and outstanding computer engineering students from Hakim Sabzevari University, I conducted research on cloud computing, focusing on the field of "Sky Computing".

Work Experience

Software Engineer
Yaran Jewelry Store, Mashhad, remote, part-time, Jun 2025- Sep 2025
In this remote, contract position, I translated the client's requirements into an implementable application, and with the help of my friend, we implemented a website to manage the jewelry store. In this position, I implemented the server side of the application using fastapi, which included a system for logging, testing, and documenting it.

Backend Developer

Neshan Maps, Mashhad, onsite, full-time, Jul 2025- Aug 2025

In this intensive bootcamp, which included entrance exams and subsequent interviews for selected candidates, I was able to be one of the 6 finalists out of 600 applicants. During this course, I was introduced to Java and Spring Boot programming and other aspects of programming, including microservices and their management, and gained a great experience in self-study.

Backend Developer

Part Software Group, Mashhad, onsite, full-time, Jul 2024- Aug 2024

In this intensive bootcamp, I learned the basics of back-end programming with node.js from the professional engineers of Part software company.

Image Processing Engineer

Bonyad Meli Nokhbegan, Sabzevar, remote, part-time, Jul 2024 - Nov 2024

In this program, we are building a robot to harvest saffron. I was a member of the machine vision team for this project. The supervisor of the project, Dr. Mohsen Taghizadeh, is a faculty member of the Faculty of Engineering, Department of Mechanical Engineering, Hakim Sabzevari University.

Backend Developer

Professor DNA, Mashhad, remote, part-time, Nov 2023 - Mar 2024

In an unofficial contract, my team was responsible for completing the software part of a microlab project. In this project, I learned how to work in a team consisting of another backend developer and a frontend developer. Also, in this project, we did team coordination in person and virtually, and in a way, it made us more familiar with the work environment and responsibility and bringing the project to the deadlines.

Software Developer

Bina Pardaz Shargh, Mashhad, onsite, full-time, Jun 2023 - Sep 2023

I was working on software development in the company's R&D team. As an almost generic developer, I made a graphical application using pyqt in this short course. I also tried to learn django and developed server-side software using it. The main purpose of my internship in this company was to learn more about the work environment and strengthen soft skills.

Projects

Sentiment analysis model on IMDB reviews

A model built with PyTorch to analyze sentiment in a dataset of movie reviews on IMDB, using RNN and LSTM to classify reviews into positive and negative.
link: github.com/Rahmat-ML/pytorch-imdb-sentiment-lstm

PyTorch linear DNN

A mini-project to demonstrate the workflow of a neural network (including data model, loss, optimization, and training) built with PyTorch and performing a basic task of learning a straight line.
link: github.com/Rahmat-ML/PyTorch-Linear-DNN-Fundamentals

Recommender system for car price

Car price estimation based on the information of a car sales site | final project of Maktabkhooneh
link: github.com/EnAnsari/guess-price-car

competitive programming helper

competitive programming helper: A powerful parser to make competitive coding easier
link: github.com/EnAnsari/cph

Notification Service

A Java project to practice new Java features and based on software engineering principles such as OOP and SOLID.
link: github.com/rahmasir/notification-service

Git flow Assistant

A CLI helper written in Python and libraries like PyGithub and typer that automates Git Flow operations by integrating with GitHub for developing integrated microservice applications.
link: github.com/rahmasir/gfr, pypi.org/project/gfr

Simple gallery webpage

CS50 Frontend project

A simple gallery designed with html, css, js and the ability to preprocess images to reduce their size using python
link: ctrl-alt-defeat-icpc.github.io/gallery

In this project, I created a static website with html, css, and js, based on my knowledge from the CS50x course.
link: enansari.github.io/homepage-CS50

ICPC to Quera format translator
A Python tool to automatically convert official ICPC data (domjudge) to the quera class platform
link: github.com/ctrl-alt-Defeat-icpc/iq-ship

Programming contest visualizer
A practical tool for simulating past programming competitions
link: github.com/ctrl-alt-Defeat-icpc/pre-contest-visualizer

A small microservice application
Here I have written an application using nodejs that implements a page with a simple crud without any additional tools and with only html, css, js and pure nodejs in the backend.
link: github.com/Rahmat-JS/super-mini-micro-service-project

Protected page with firebase (just client side app)
In this software, I created a simple static site that uses Google Firebase as a third party for authentication.
link: rahmat-js.github.io/protected-page

Test Scores

- Bachelor's final project: 19/20
- Algorithm Design: 19.25/20
- Automata Theory: 20/20
- Artificial Intelligence: 20/20
- Data Structure (DS): 20/20
- Advanced Programming (AP): 20/20