Ali Kasiri

alikasirii2003@gmail.com +98 991 448 3136 github.com/alikasiri1 Ali-Kasiri

Profile Summary

Final-year Computer Engineering student with strong foundations in **Artificial Intelligence**, **Machine Learning**, and **Deep Learning**. Experienced in **Natural Language Processing**, **Reinforcement Learning (RL)**, and **Deep Reinforcement Learning (DRL)**, with growing expertise in developing intelligent algorithms and language-based models. Eager to contribute research and practical solutions at the intersection of AI, ML, and advanced language technologies.

Education

Bachelor of Computer Engineering Sep 2021 – Feb 2026 (Expected)

- University of Isfahan, Isfahan, Iran (GPA: 4 / 4)
- **B.Sc. Thesis**: Built an automatic image cropping system using AI-based aesthetic scoring and RLHF for visually appealing results, mentored by Dr. Hosein Karshenas.

Research Interests

- Machine Learning & Deep Learning
- Artificial Intelligence
- Reinforcement Learning (RL & DRL)
- Large Language Models (LLMs)
- Natural Language Processing (NLP)
- Internet of Things (IoT)

Research Experience

Structured Sentence Self-Attentive Embedding for NLP
Research project for Natural Language Processing course on designing a self-attentive embedding architecture for structured sentence representation.

Enhancing Intrusion Detection Systems using Neural Networks
Explored neural networks to improve IDS, addressing limitations of traditional signature- and anomaly-based methods and detecting complex attack patterns in large-scale traffic.

Trust-Based Distributed Intrusion Detection for IoT
Term paper for Fundamentals of IoT course. Designed and evaluated a trust-based distributed IDS architecture for Internet of Things environments.

Course Projects

Movie Recommendation System (SVD)
Built a recommender using Singular Value Decomposition.

Mean Shift Segmentation (Custom Implementation)
Implemented a custom Mean Shift algorithm for image segmentation, grouping pixels based on spatial and color similarity to produce segmented images.

Image Processing & Feature Extraction
Used OpenCV, scikit-image, rembg, and a DL model for classification/clustering.

Integrated Security Assessment Pipeline for Targeted Attack Simulation

Used Nmap, Burp Suite, OWASP ZAP to simulate and assess targeted attacks.

Trust-Based Distributed Intrusion Detection for IoT
Term paper for Fundamentals of IoT course.

Retrieval-Augmented Generation (RAG) with Django
Implemented RAG pipeline and API.

Web Blog Generator (Django REST + LLMs)
REST API that generates blog content using LLMs.

Work Experience

Teaching Assistant, University of Isfahan, Isfahan, Iran — 2023 – 2025

- Teaching Assistant for **Fundamentals of C++ Programming**, under Prof. Mojtaba Mahdavi
- Teaching Assistant for **Advanced Programming**, under Prof. Mojtaba Mahdavi
- Teaching Assistant for **Computer Networks**, under Prof. Mohammad Hosain Bateny

Data Science Intern, Monil-Lan, Isfahan, Iran — Summer 2024 (4 months)

- Worked on **Large Language Models (LLMs)** and **Natural Language Processing (NLP)** applications
- Responsible for **data extraction and preprocessing** to build a **recommendation and Q&A NER system model**
- Gained hands-on experience with modern AI tools and techniques
- Internship conducted under the supervision of Prof. Reza Ramezani

Skills

Programming Languages: C, C++, Python

Programming Skills: OOP, Design Patterns, Data Structures & Algorithms, Git

Libraries/Frameworks/Tools: Scikit-learn, PyTorch, Pandas, NumPy, Django, Qt, SQL, Linux, Docker

Languages

Persian: Native **English:** Fluent **TOEFL:** 93