

Amirhossein Arefzadeh

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Education

B.S. in Computer Engineering

Sep 2022 – Present

University of Tehran

- GPA: 18.85/20.0 (3.87/4) (Faculty Average: 14.96/20)
- 1st Rank ◊ Spring 2024 Semester ◊ 19.83/20.0
- Ranked 7th out of 90 students

Highschool Diploma in Mathematics

Sep 2019 – Jun 2022

Ario Mosallanezhad, Mashhad

- GPA: 19.6/20.0






Related Courses

- | | |
|---|---|
| ◦ Artificial Intelligence: 19.5/20 | ◦ Engineering Probability and Statistics: 17.7/20 |
| ◦ Basic Computer Programming: 20/20 | ◦ Advanced Programming: 20/20 |
| ◦ Discrete Mathematics: 20/20 | ◦ Data Structures and Algorithms: 20/20 |
| ◦ Machines and Language Theory: 20/20 | ◦ Engineering Mathematics: 20/20 |
| ◦ Foundations of Data Science: (current semester) | ◦ Database Design: (current semester) |

Technical Skills





- **Languages:** Python, C, C++, Java
- **Databases:** MySQL, MongoDB
- **Frameworks & Libraries:** TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Beautiful Soup, Selenium, Apache Spark, Apache Kafka
- **Tools & Platforms:** Git, GitHub, Linux, Docker, Makefile, Bash Script, Power BI, Tableau

Projects

- **Experimental Analysis of Concept Forgetting in Generative Models** [GitHub Repository](#) 
Implemented the "Selective Amnesia" (NeurIPS 2023) paper and extended it with novel experiments on sequential forgetting, adversarial concept recovery, and alternative gradient projection methods.
- **Data Science Course Projects** [GitHub Repository](#) 
A collection of projects covering fundamental and advanced data science topics, including data scraping, data visualization, big data engineering (Kafka, Spark), CI/CD automation, machine learning (regression, classification), and deep learning (MLP, CNN, RNN).
- **Image Reconstruction with Genetic Algorithms** [GitHub Repository](#) 
Developed a Python-based genetic algorithm from scratch to recreate target images using triangles.
- **NLP News Articles Clustering** [GitHub Repository](#) 
Applied clustering techniques on news articles through text preprocessing, feature extraction, and dimensionality reduction.
- **Connect4 Game Bot** [GitHub Repository](#) 
Created an intelligent Connect 4 game bot using Minimax with alpha-beta pruning. Includes an interactive interface with adjustable difficulty.

- **Machine Learning Classifiers** [GitHub Repository](#)  implementation and evaluation of various Machine Learning classification models and walks through the process of preparing and exploring data, engineering features, and building models to classify data effectively.

Research Experience

- **Research Assistant, Machine Unlearning** *July 2025 – Present*
RIML (Robust and Interpretable Machine Learning Lab)
Under the supervision of [Dr. M. H. Rohban](#)  and [Dr. A. M. Sadeghzadeh](#) 
Contributed to cutting-edge research on robust and interpretable generative models by developing and implementing machine unlearning methods to enhance model safety and control.
- **Investigating NLP and Brain-Inspired Models** *Jan 2025 – Apr 2025*
Under the supervision of [Dr. Y. Yaghoobzadeh](#) 
Conducted literature review and exploratory experiments on how insights from human brain activity can improve NLP model interpretability. [\[NeurIPS 2019 Background Paper\]](#) .

Volunteering

- **Artificial Intelligence Teaching Assistant** *(Feb 2025 – Present)*
University of Tehran
Designing assignments, reviewing submissions, and creating lesson questions.
- **Advanced Programming Teaching Assistant** *(Aug 2024 – Present)*
University of Tehran
Designing assignments, writing test cases, and collaboration on programming course journals.
- **Data Structures and Algorithms Teaching Assistant** *(Aug 2024 – Present)*
University of Tehran
Designing lesson questions and providing detailed feedback on student responses.
- **Discrete Mathematics Teaching Assistant** *(Feb 2024 – Present)*
University of Tehran
Assisting in classes, troubleshooting, and reviewing student submissions.
- **Intro to Computing Systems and Programming Teaching Assistant** *(Aug 2023 – Feb 2024)*
University of Tehran
Conducted troubleshooting sessions and recorded lesson videos.
- **Intro to Computing Systems and Programming Lab Supervisor** *(Aug 2024 – Feb 2025)*
University of Tehran
Guided students in practical sessions and evaluated lab projects.

Achievements

- **Sanjesh Organization:**
Ranked 813th in Iran's National University Entrance Exam (Top 0.5%)
- **University of Tehran ACM Student Chapter:**
Completed UT ACM Summer of Code 2024 Deep Learning Course

Interests

- Artificial Intelligence & Machine Learning
- Data Analytics & Data Science
- Algorithms & Data Structures

Languages

- **Persian:** Native
- **English:** Listening: B2, Reading: C1, Writing: B1, Speaking: B2