





Alireza Amiri

 github.com/Alireza-81
 [linkedin.com/in/alireza-amiri-bavandpour](https://www.linkedin.com/in/alireza-amiri-bavandpour)

 +98 912 3546404
 alireza81.amiri@gmail.com

Education

Sharif University of Technology
B.S. Computer Engineering

2021 - Present
Current GPA: 3.83/4.0

Research interests

- Machine learning
- Deep Learning
- Computer Vision
- Natural Language Processing
- Trustworthy ML
- Robustness

Research Experience

Internship in Vision Language Models | *Remote*
L3S Research Ctr.

September 2023 - Present

Supervised by: Prof. Mitra Parsenjit, Dr. Ali Rasekh

Currently working on Adversarial Data Augmentation on T2I models and also testing the robustness of them.

Project on Differential Privacy on LLMs

January 2024

Supervised by: Dr. Adam Dziedzic

The project was adding soft prompts from github.com/THUDM/P-tuning to a GPT2 model with differential privacy and comparing it to finetuning the model. This task was performed with two different approaches on the LAMA dataset and the E2E dataset. I have also finetuned Bert tiny with methods like LoRA, full finetuning, finetuning with one layer, soft prompts and prefix and used differential privacy on soft prompts and prefix.

Awards

Silver Medal 2020

Iranian National Mathematical Olympiad

Honorable Mention 2020

Tuymaada Mathematical Olympiad

Silver Medal 2020

SilkRoad Mathematical Competition

Bronze Medal 2019

Iranian National Mathematical Olympiad

Silver Medal 2019

SilkRoad Mathematical Competition

First Prize 2018

European Mathematical Cup

Bronze Medal 2018

Iranian Geometry Olympiad

Certificate of Merit <i>Purple Comet! Math Meet</i>	2016
Certificate of Participation <i>University of Waterloo Gauss Contest</i>	2016

Teaching Experience

Machine Learning <i>Teaching Assistant</i> Dr. Abolfazl Motaharri	Spring 2024
Machine Learning <i>Teaching Assistant</i> Dr. Fatemeh Seyed Salehi	Spring 2024
Machine Learning <i>Teaching Assistant</i> Dr. Abolfazl Motaharri	Fall 2023
Advanced Programming <i>Teaching Assistant</i> Dr. MohammadAmin Fazli	Spring 2023
Probability and Statistics <i>Teaching Assistant</i> Dr. Mahdi Jaafari Siavoshani	Spring 2023
Logic Design <i>Teaching Assistant</i> Dr. Laleh Arshadi	Fall 2022
Fundamentals of Programming <i>Teaching Assistant</i> Dr. MohammadAmin Fazli	Fall 2022
Salam Girls Highschool <i>Mathematical Olympiad algebra and combinatorics teacher</i>	2021-2023
Salam Highschool <i>Mathematical Olympiad combinatorics teacher</i>	2022-2023

Projects

Differential Privacy on LLMs https://github.com/Alireza-81/DP-soft-prompts
Persian Text Classifier https://github.com/Alireza-81/Persian-text-classifier
3D Facial Mask Reconstruction https://github.com/SohrabiAlir/3D-Facial-Mask-Reconstruction
State.IO https://github.com/Fundamentals-of-Programming-2021/project-Alireza-81
Civilizations VI https://github.com/AdvancedProgrammingSUT2022/project-group-04
CupHead https://github.com/Alireza-81/GraphicAssignment

Related Coursework

Machine Learning | Deep Learning | Artificial Intelligence | Advanced Information Retrieval
 Linear Algebra | Probability and Statistics | 3D Computer Vision | Algorithm Design | Advanced
 Programming | Discrete Structures | Natural Language Processing | Large Language Models