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# Alireza Sakhaeirad

Tehran, Iran

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## Interests

My primary research interest revolves around developing reliable and robust artificial intelligence systems. I am deeply committed to exploring the theoretical foundations and practical applications of AI, seeking to advance the field by creating AI systems that can perform consistently and effectively in real-world scenarios.

## Awards & Recognition

- Ranked 1st in Iran's national university entrance exam 2019 (among more than 150k participants)
- Ranked 1st in Sharif University of Technology, Electrical Engineering program 2019
- Admission to Nodet (National Organization for Development of Exceptional Talents) high school

## Education

### BSc in Electrical Engineering, Sharif University of Technology

Sep 2019 - Feb 2024

- Current GPA: 19.68/20
- Current Rank: 1
- Bachelorette project: Robustness analysis of computer vision models

Supervised by: Prof. Sajjad Amini

### Research Intern, NLP lab, EPFL University

- Commonsense evaluation of large language models
- Deep analysis of educational capabilities of large language models
- Continued pretraining of large language models

July 2023 - Sep 2023

## Work Experience

### Danial Moj Co. - AI engineer

July 2022 - Nov 2022

- Worked on solving industrial problems using machine learning

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## Research Experience

- Robustness analysis of computer vision models  
On-going research  
Supervised by: Prof. Sajjad Amini
- GradGPT - assessment of GPT-4 educational capabilities, including question answering and exam grading.  
On-going research  
Supervised by: Prof. Antoine Bosselut
- Meditron - a biomedical large language model  
On-going research  
Supervised by: Prof. Antoine Bosselut
- Dice-Flip: A new benchmark for commonsense reasoning in large language models  
Supervised by: Prof. Antoine Bosselut

## Selected Graduate-level Courses

- Reinforcement learning
- Security and privacy in machine learning
- Large Language models
- Computer Vision
- Deep learning
- Parallel computing and programming
- Graph Signal Processing
- Random processes

## Selected Teaching-assistance Experience

- Machine Learning
- Deep Learning
- Digital Signal processing
- Prob & Stat
- Convex Optimization
- Mathematics for Engineering

## Skills

- Programming Languages  
Python: High-Proficiency | Pytorch, Keras, sk-learn, pandas, NumPy,  
C/C++: Intermediate-Proficiency | Cuda

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Java: Intermediate-Proficiency | Swing  
MATLAB: Intermediate-Proficiency | Signal Processing  
Verilog: Familiar  
Assembly: Familiar  
Javascript: Familiar

- **Development Skills**

Docker  
Git/Github  
HTML/CSS

- **Database management**

SQL

## Languages

- **Persian**

Native

- **English**

Fluent

TOEFL Score: 112/120 : Reading:30/ Listening:30/ Speaking: 26/ Writing:26