SINA RAZI MOFTAKHAR

@ sinarazi99@gmail.com   📞 +49 157 5855 6262   🐙 github.com/sinarazi

EDUCATION

B.Sc. in Computer Engineering
University of Tabriz

📅 Sep, 2018 - Sep, 2022   **Tabriz, Iran**   GPA : **3.76**/4 (18.12/20)

- Graduated with High scores, and **Ranked 3** out of 80 students.
- Being teacher assistant at the last semester.

High School Diploma Certificate in Mathematical sciences
National Organization for Developing Special Talents

📅 Sep, 2014 - Jun, 2018   **Oroumieh, Iran**   GPA : 19.40 out of 20

- Among top 2 percent of top students of university entrance exam at 2018
- Participation in the first round of Student Olympiad of Mathematics

PROFESSIONAL EXPERIENCES

Artificial Intelligence and Machine Learning R&D
Procter & Gamble

📅 Feb, 2023 - ongoing   📍 Frankfurt, Germany

- Working in an American multinational consumer goods corporation.
- Implementing various AI-based projects, including Data Analysis, Computer Vision, and Image Processing .
- Developing large-scale projects for U-net, GAN and Diffusion Models according to the state-of-the-art papers.
- Getting hands-on experience in Git, Linux, Azure and frameworks of python, namely Pytorch and Tensorflow.

IT System Administrator
Petrochemical Company of Oroumieh

📅 Feb, 2021 - Jun, 2021   📍 Oroumieh, Iran

- This internship is related to internship course of **University of Tabriz**, under the guidance of **Prof. Seyed Naser Razavi**. I was designated as a system admin at Information Technology department of this industrial company.
- Providing cluster-based systems for employees and work with state-of-the-art real-world and industrial applications.

Programming Tutor
National Organization for Developing Special Talents High School

📅 Nov, 2018 - Oct, 2019   📍 Oroumieh, Iran

- An enthusiastic instructor who taught students of his high school programming languages, namely Python and C/ C++.
- For final projects, we implemented "File management with C" and "Large Digit Calculator", whose codes were pushed on my GitHub recently.
- Please feel free to check my **GitHub Repository** for more information.

PROGRAMMING

Programming Languages

Python   C/ C++   SQL   Java   HTML/ CSS

Frameworks

TensorFlow   Keras   Pytorch   Scikit-Learn   NumPy   OpenCV   Django   SciPy   Pandas   NodeJs

Other Skills

Git/ GitHub   Tableau   Power BI   Azure   Linux   Office

SKILLS

Artificial Intelligence   Machine Learning   Deep Learning   Software Engineering   Computer Vision   Image Processing   Data Analytic   Data Management   Segmentation Algorithms   Data Science

PROJECTS

Diffusion Models and GAN for Procter and Gamble's Baby-care department
python, tensorflow, pytorch, etc

📅 Feb, 2023 - Ongoing

- Implementation of generative algorithms for baby care department of P&G. The purpose is developing a vision system for diapers as well as a cool prompting system for this section.

U-Net for Procter and Gamble's Baby-care department
python, tensorflow, pytorch, etc

📅 Feb, 2023 - Ongoing

- Implementation of segmentation for baby care department of P&G. We developed our algorithm on 3D and 2D data of microscopic data of our product line.

ACADEMIC EXPERIENCES

- **Teacher assistant** of Discrete Mathematics — **February 2022 - July 2022**
  Course syllabus of Dr. Seyed Amir Mortazavi

- **Teacher assistant** of Applied Linear Algebra
  Course syllabus of Dr. Seyed Amir Mortazavi

- I was a TA in these two courses and supposed to educate students the concepts of these courses.
- In addition, I taught them how to implement the mathematical methods in python.
- The grading of assignments, mid-exam and final-exam.

- Bachelor's **thesis**: — **Sep 2021 - January 2022**
  Froth flotation using computer vision algorithms
- Developing a specific project with Single Shot Detector (SSD) in the lab of Dr. Moallemi Khiavi.

CERTIFICATES

Issued by Stanford Online — 28.11.2020
- Machine Learning

Deeplearning.ai — 19.07.2021
- TensorFlow in Practice Specialization
- Deep Learning Specialization
- TensorFlow Advanced Techniques Specialization

Imperial College London — 28.04.2022
- Mathematics for Machine Learning Specialization

University of Michigan — 31.10.2020
- Python for everybody specialization

University of California, Santa Cruz — 04.11.2020
- C for Everyone: Programming Fundamentals

University of Illinois at Urbana-Champaign — 07.10.2020
- Object-Oriented Data Structures in C++

LANGUAGES

- English (Advance)
- German (Elementary)
- Turkish (Native)
- Persian (Native)

Probability simulation of Procter and Gamble's factory line speed
python, tensorflow, numpy, etc

📅 April, 2023 - Ongoing

- Implementation of an algorithm based on statistical models to simulate the probability of speed of the line in on of the factory's of P&G in Germany.

Teaching assistance files of University of Tabriz - GitHub

📅 Jan, 2022 - Jul, 2022

- TA files for "Discrete Mathematics" and "Applied Linear Algebra", under the supervision of Prof. Seyed Amir Mortazavi.

Computer Vision with Image Processing - GitHub
python, tensorflow, numpy, etc

📅 Sep, 2022 - Ongoing

- Implementation of various Image Processing algorithms alongside Computer Vision ones.

Froth Flotation Process through Computer Vision - GitHub
python, etc

📅 Sep, 2021 - Jan, 2022

- The **final** project of University of Tabriz, based on SSD architecture, under the supervision of Prof. Abdolhamid Moallemi Khiavi.

Machine Learning Algorithms
python, tensorflow, numpy, etc

📅 Aug, 2020 - Sep, 2022

- Implementation of famous ML algorithms, such as Anomaly Detection, Dimensional Reduction and many more, from scratch.

ENGLISH CERTIFICATES

IELTS idp — 18.12.2021
- Overall: 7

  Listening: 7.5   Reading: 7
  Writing: 6.5   Speaking: 7

GRE General — 02.09.2022

  Quantitative Reasoning: 157
  Analytical Writing: 4