Sina Alinejad

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Personal Website

Education

IUST University (among the top 4 universities in Iran) — Tehran, Iran
B.Sc. in Computer Science at Iran University of Science & Technology — 2020 - 2025

- Overall GPA: 18.66/20
- Ranked Among Top 8% GPA in my class
- Selected Courses: Artificial Intelligence: A+, Computational Intelligence: A+, Deep Learning: A+, NLP: A+

Research Experience

Remote NLP Researcher in Adaptive Inference Lab — University of Wisconsin–Madison
Under supervision of Dr. Benjamin Lengerich and Sazan Mahbub — July 2024 - October 2024

- Working on Foundation Models as Context. See the project here.
- The project is based on an earlier project titled "Context-Adaptive Systems" which you can see here.
- Academic papers: RAG-IM: Retrieval Augmented Generation of Interpretable Models.

Undergraduate Research Assistant in NLP Laboratory — IUST University
Under supervision of Dr. Sauleh Eetemadi — Sep 2022 - July 2024

- Working on Chest X-ray Radiology Report Generation as my Bachelor's project.
- Project Github: GitHub

Publications

From One to Zero: RAG-IM Adapts Language Models for Interpretable Zero-Shot Clinical Predictions — **Published** September 2024
NeurIPS 2024 Workshop on Adaptive Foundation Models (AFM-2024) (article)

Authors: Sazan Mahbub, Caleb Ellington, **Sina Alinejad**, Kevin Wen, Yingtao Luo, Ben Lengerich, Eric P. Xing

Designing Large Foundation Models for Efficient Training and Inference: A Survey — **Published** April 2025

ArXiv (article)

I wrote the section on Mixture of Experts (MoE)

Authors: Dong Liu, Yanxuan Yu, Yite Wang, Jing Wu, Zhongwei Wan, **Sina Alinejad**, Benjamin Lengerich, Ying Nian Wu

Numeral prediction using gpt3.5 — **Published** June 2024
Proceedings of the 18th International Workshop on Semantic Evaluation (SemEval-2024) (doi)
Authors: **Sina Alinejad**, Erfan Moosavi Monazzah

Skills

- **Programming Languages:** Python, C, C++, C#, JS
- **Libraries and Frameworks:** Pytorch, Keras, TensorFlow, Scikit-Learn, Numpy, React JS
- **Environments and Tools:** Microsoft Azure, Git, Postman, VMware

Honors & Certificates

Ranked Within the Top 0.5% in Iranian University Entrance Exam   August 2020
Mathematics and Physics majors

- Ranked 659 among 155000 students

Among top 8% in My Class in GPA(18.66/20)   Sep 2018 - present
School of Computer Science, IUST

- Class of 100 students

Natural Language Processing Specialization   Jun 2024
Certificate on Coursera.org

- Includes courses on Probabilistic Models, Sequence Models, and Attention Models.

Machine Learning Specialization
Certificate on Coursera.com   Jul 2023

- Includes courses on Supervised Machine Learning, Advanced Learning Algorithms, and Unsupervised Machine Learning.

Projects

Chest X-ray Radiology Report Generation   IUST University
Bachelor's Project - GitHub   May 2025

Projma: A Trello-like project   IUST University
Software Engineering Course Project - GitHub   Winter 2023

- The application was developed with Scrum Methodology.
- Frontend is Implemented with ReactJS. GitHub
- Backend is Implemented with Django. GitHub

Solar Panel Detection using U-Net architecture   IUST University
Computer Vision Course Project - GitHub   Winter 2023

Implementing Multi-Layer Perceptron from Scratch   IUST University
Computational Intelligence Course Project - GitHub   Fall 2023

Medical Advisor using RAG architecture   IUST University
Natural Language Processing Course Project - GitHub   Winter 2024

Implementing and Training a Masked Language Model (MLM)   IUST University
Natural Language Processing Course Project - GitHub   Winter 2024

Berkeley's Pac-Man AI Game Project   IUST University
Artificial Intelligence Course Project - GitHub   Fall 2022

Saffron Edge Detection   IUST University
Natural Language Processing Course Project - GitHub   Winter 2023

CamScanner Program   IUST University
Computer Vision Course Project - GitHub   Winter 2023

Languages

- **English:**
  - IELTS: **Overall: 7**, Reading: **7**, Listening: **8.5**, Speaking: **6.5**, Writing: **6**