Amir Mohammad Fakhimi

Computer Engineering student at Sharif University of Technology

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EDUCATION

09/2020 - 02/2025
Sharif University of Technology

- Bachelor of Science in Computer Engineering
- GPA: 18.86 / 20 (3.97 / 4.0)

SKILLS

- Python & Java & Swift & C
- PyTorch & Tensorflow
- Hugging Face libraries (Transformers & Datasets & PEFT & Evaluate)
- nltk
- Numpy
- Pandas
- Matplotlib & Plotly
- Front-End (Next.js & React.js & TypeScript)
- Communication & Teamwork
- Table Tennis

ABOUT ME

I'm Amir Mohammad Fakhimi, a **Computer Engineering** student at **Sharif University of Technology** with a focus on AI, particularly **Deep Learning**, **NLP**, and **Computer Vision**. I've worked on AI-driven projects like the Scientia Iranica Referee Recommendation System and research on compositional challenges in Stable Diffusion Models.
Through internships at **Rahnema College** (**front-end development**) and **Sokhan AI** (**Automated Speech Recognition**), I gained practical experience in software engineering and AI.

EXPERIENCES

Sokhan AI 06/2024 - PRESENT
Artificial Intelligence Intern

- As an AI Intern at Sokhan AI, I worked on **Automatic Speech Recognition** (**ASR**), fine-tuning models using both public and private Persian datasets. My efforts **significantly reduced Word Error Rate** (**WER**), improving the company's ASR system. I also contributed a **pull request**, which was **merged**, to Hugging Face's Transformers library.

Rahnema College 08/2022 - 11/2022
Software Development Intern

- Chosen from nearly **900 participants**, I attended a **Tapsi-sponsored** boot camp, gaining experience in **front-end** (TypeScript, React.js), **back-end** (Node.js), **Android** (Kotlin), and **DevOps** (Docker, CI/CD). I worked in the front-end team on the **FPL project** with 5 others.

LABRATORIES

AI-Driven Referee Recommendation System for Scientia Iranica Journal 02/2024 - PRESENT
Prof. Shohreh Kasaei (IP Lab)

- I contributed to an AI project for Scientia Iranica, developing a model to automate referee selection and identify professors' expertise from publications, streamlining the peer-review process.

Research Survey on Compositional Problems of Stable Diffusion Models 10/2023 - PRESENT
Dr. Mahdieh Soleymani Baghshah (ML Lab)
Dr. Mohammad Hossein Rohban (RIML Lab)

- This survey explores solutions to compositional challenges (e.g. object relationships & positional consistency) in Stable Diffusion models.

VOLUNTEERINGS

- *TAs (Teaching Assistants):*
  - **Modern Information Retrieval (2 Times)**
  - **Machine Learning (3 Times)**
  - **Artificial Intelligence (2 Times)**
  - **Linear Algebra**
  - **Engineering Probability and Statistics**
  - **Database Design (2 Times + 1 Time Head TA)**
  - **Head of iOS Homework at Mobile Programming**
  - **Advanced Programming (1 Time + 2 Times Head of a Homework)**
  - **Fundamentals of Programming (2 Times + 1 Time Head of a Homework)**
- *Events:*
  - **Scientific Staff at Rayan AI Global Contest**
  - **Technical Staff at ICPC (2 times)**
  - **Frontend Web Developer at 9th WSS (Winter Seminar Series)**
  - **Frontend Web Developer at Gamein**

PROJECTS

- **LLMs' Citation Benchmark**
  - For the final project of the Spring 2024 NLP course at Sharif University of Technology, we built a system to **evaluate citations** in generative models, experimenting with **prompt designs** and **developing metrics** for citation accuracy and reliability.
- **Llama 3 LoRA Fine-Tuning**
  - For the fourth homework of the Spring 2024 NLP course at Sharif University of Technology, we collected a dataset on **gender neutralization** and fine-tuned **Llama 3** using **LoRA**.
- **Add Validation for Maximum Sequence Length in Whisper Model**
  - Added a validation check to the **Whisper model** in the **Transformers library** to ensure label sequence length doesn't exceed the token limit, raising a ValueError if it does. This improves robustness by preventing errors from long sequences. Also added related tests.
- **Modern Information Retrieval**
  - This was our project for the Modern Information Retrieval course at Sharif University of Technology.

COURSES

- *Sharif University of Technology:*
  - **Natural Language Processing (19.8 / 20)**
  - **Fundamentals of 3D Computer Vision (18.7 / 20)**
  - **Modern Information Retrieval (20 / 20)**
  - **Machine Learning (19.6 / 20)**
  - **Artificial Intelligence (19.6 / 20)**
  - **Linear Algebra (20 / 20)**
  - **Engineering Probability and Statistics (20 / 20)**
  - **Advanced Programming (20 / 20)**
  - **Fundamentals of Programming (20 / 20)**
- *Others:*
  - **Berkeley Large Language Model Agents (Ongoing)**
  - **Stanford Deep Learning for Computer Vision**

HONORS

- **Direct Master's Program Candidate in Artificial Intelligence**
- **Selected for Table Tennis Team for Students' Sports Olympiad**
  - I represented Sharif University of Technology in the 16th National Students' Sports Olympiad as a member of the table tennis team. This experience taught me valuable lessons in dedication, discipline, and time management in achieving success across different areas of life.