

Amir Mohammad Fakhimi

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Education

• Sharif University of Technology

Tehran, Iran

B.Sc. in Computer Engineering – **GPA: 18.72/20**

Sep 2020 – Sep 2025

- Selected coursework (grade /20): Natural Language Processing (Grad, 19.8), Advanced Information Retrieval (20), Machine Learning (19.6), Artificial Intelligence (19.6), Fundamentals of 3D Computer Vision (18.7), Linear Algebra (20), Probability & Statistics (20)

Research Interests

- LLM/VLM Reasoning
- Multimodal Learning
- Multilingual Robustness
- Grounding & Evaluation

Research Experience

• Number Understanding in LLMs

[Qatar Computing Research Institute](#)

Apr 2025 – Present

Supervisor: [Dr. Ehsaneddin Asgari \(QCRI\)](#)

- Built a multilingual benchmark for numeric reasoning across **4 domains** (Basic, Numeric, Temporal, Monetary) and **4 languages** (English, Persian, Arabic, Turkish).
- Generated almost **1.2M multiple-choice prompts per language** via a template-driven pipeline with dynamic answers/distractors and controlled locale-specific formatting.
- Ran an evaluation harness on open-source LLMs (e.g., Gemma, Llama, Qwen) and analyzed cross-lingual failure patterns.

• Abductive Reasoning in LLMs

[Sharif University of Technology](#)

May 2025 – Aug 2025

Supervisors: [Dr. Mohammad Hossein Rohban \(RIML Lab\)](#) and [Dr. Mahdi Jafari Siavoshani \(INL Lab\)](#)

- Reviewed **50** papers, cataloged **30** abductive-reasoning datasets (commonsense/medical/investigative), and documented evaluation gaps.
- Ran **70** model–dataset evaluations (e.g., Llama, GPT) and summarized recurring failure modes to guide method development.

• AI-Driven Referee Recommendation for [Scientia Iranica Journal](#)

[Sharif University of Technology](#)

Feb 2024 – Present

Supervisor: [Dr. Shohreh Kasaei \(IP Lab\)](#)

- Developed LLM-based components for reviewer recommendation and automated expertise profiling from publication records to support editorial workflows.

• Survey: Compositional Problems in Stable Diffusion Models

[Sharif University of Technology](#)

Oct 2023 – Apr 2024

Supervisors: [Dr. Mahdieh Soleymani Baghshah \(ML Lab\)](#) and [Dr. Mohammad Hossein Rohban \(RIML Lab\)](#)

- Surveyed methods addressing compositional failures (object relations, spatial consistency, scale) in diffusion-based generation and produced a taxonomy and visual summaries.

Industry Experience

• Artificial Intelligence Intern

[Sokhan AI](#)

Persian ASR ([Whisper](#)) fine-tuning and evaluation

Jun 2024 – Sep 2024

- Built an end-to-end fine-tuning + evaluation pipeline for [Whisper](#) on public and proprietary Persian datasets.
- Achieved an approximately **10% WER reduction** vs. prior baselines with automated metric tracking and benchmark reporting.
- Contributed a merged [Hugging Face Transformers PR](#) (with tests) adding Whisper label-length validation to prevent silent training failures.

- **Software Development Intern** [Rahnema College](#)
Aug 2022 – Nov 2022
Tapsi-sponsored software engineering bootcamp
 - Selected from almost **900 participants** and trained across front-end (TypeScript, React.js), back-end (Node.js), mobile (Kotlin), and DevOps (Docker/Kubernetes).
 - Built the front-end for a fantasy football product ([FPL project](#)) in a team of six.

Selected Projects

- [**LLMs' Citation Benchmark**](#) [Sharif University of Technology](#)
Jul 2024 – Aug 2024
Evaluation pipeline for citation-grounded generation
 - Built an end-to-end evaluation pipeline (generation → evidence → scoring) for citation faithfulness.
 - Proposed a metric based on atomic-fact decomposition and evidence support checking and ran experiments across prompt and retrieval variants.
- [**Llama 3 LoRA Fine-Tuning**](#) [Sharif University of Technology](#)
Jul 2024 – Aug 2024
LoRA fine-tuning on a gender-neutralization dataset
 - Created a [gender-neutralization dataset](#) and performed LoRA fine-tuning on Llama 3.
- [**Amoogle: Advanced Information Retrieval Pipeline**](#) [Sharif University of Technology](#)
Feb 2022 – Aug 2023
Course project of Advanced Information Retrieval course
 - Implemented and evaluated BM25/vector-space retrieval and added learning-based components then built a crawler for [Semantic Scholar](#) and a personalized PageRank + recommender pipeline with a UI.

Honors and Awards

- **Direct Master's Program Candidate (AI)**, Sharif University of Technology – Selected among 18 finalists (2023)
- **Selected Athlete**, Sharif University of Technology Table Tennis Team – Represented Sharif University of Technology at the 16th National Students' Sports Olympiad (2024)
- **2nd Place and 3rd Place**, Sharif University of Technology Table Tennis Championships (2025)

Teaching & Service

- **Teaching Assistant, Sharif University of Technology:**
 - **Head TA / lead roles:** Database Design (5 semesters; 3 as Head TA), Mobile Programming (Head of iOS homework), Advanced Programming (3 semesters, 2 as Head of a Homework), Fundamentals of Programming (3 semesters, 1 as Head of a Homework).
 - **Selected TA roles:** NLP (Grad), Generative Models (Grad), Machine Learning (4), Advanced Information Retrieval (3), Artificial Intelligence (3), Linear Algebra, Probability & Statistics, and 7 others.
- **Instructor (NLP Team), IOAI Preparation Program:** Delivered **5 NLP sessions** (almost **70 students/session**) and created theory notes and hands-on notebooks on short notice.
- **Sharif University of Technology & Quera outreach:** [Introduction to Programming and Algorithms](#): Supported around **2000** students with almost **100** staff; wrote textbooks, designed exercises, mentored a group; recognized as a **top mentor**.
- **Selected Service:** Scientific Staff, [Rayan AI Global Contest](#) (Anomaly Detection track, 2024); Front-end Developer, [Gamein](#) (2024); Technical Staff, [ICPC](#) Asia Regional, Tehran Site (2022–2024); Front-end Developer, [Winter Seminar Series \(WSS\)](#) (2023); and 8 others.

Technical Skills

- **Programming Languages:** Python, TypeScript/JavaScript, Java, Swift, C, SQL
- **ML/AI:** PyTorch, TensorFlow, Hugging Face (Transformers/Datasets/PEFT/Evaluate), scikit-learn, OpenCV, NLTK
- **Data/Visualization:** NumPy, Pandas, Matplotlib, Plotly
- **Web:** FastAPI, Node.js, PostgreSQL, Redis, React.js, Next.js
- **Tools:** Linux, Git, Docker