





# Amir Mohammad Fakhimi

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 [AmirMohammadFakhimi](https://github.com/AmirMohammadFakhimi)  [amirmohammadfakhimi](https://medium.com/@amirmohammadfakhimi)  [www.amfakhimi.com](http://www.amfakhimi.com) 📍 Tehran, Iran

## Education

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- [Sharif University of Technology](#)

Tehran, Iran

*B.Sc. in Computer Engineering*

*September 2020 – Present*

*Supervisor: [Dr. Hamid Beigy](#)*

- **GPA:** 18.86 / 20 (3.85 / 4.0)
- **Courses (Grades out of 20):**

* Reinforcement Learning (Graduate Course) - Ongoing	* Machine Learning - 19.6
* Deep Learning (Graduate Course) - Ongoing	* Artificial Intelligence - 19.6
* Natural Language Processing (Graduate Course) - 19.8	* Linear Algebra - 20
* Fundamentals of 3D Computer Vision - 18.7	* Engineering Probability and Statistics - 20
* Modern Information Retrieval - 20	* Advanced Programming - 20
	* Fundamentals of Programming - 20
- **Teaching Assistants:**

* Natural Language Processing (Graduate Course)	* Software Testing
* Modern Information Retrieval (2 Semesters)	* Advanced Programming (3 Semesters, 2 as Head of a Homework)
* Machine Learning (3 Semesters)	* Fundamentals of Programming (3 Semesters, 1 as Head of a Homework)
* Artificial Intelligence (2 Semesters)	* Theory of Machines and Languages
* Linear Algebra	* Computer Simulation
* Engineering Probability and Statistics	* Computer Networks
* Database Design (4 Semesters, 2 as Head TA)	* Computer Structure and Machine Language
* Mobile Programming (Head of iOS Homework)	
* Web Programming	

## Research Interests

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- Computer Vision
- Natural Language Processing (NLP)
- Deep Learning
- Machine Learning

## Work Experiences

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- **Artificial Intelligence Intern**

[Sokhan AI](#)

*Internship*

*June 2024 - Present*

- Focused on Automatic Speech Recognition (ASR) systems, specializing in fine-tuning [Whisper model](#) with public and proprietary Persian datasets.
- Achieved an approximately **10% reduction in Word Error Rate (WER)**, outperforming both the company's previous ASR system and fine-tuned open-source versions of Whisper.
- Contributed a bug-fix [pull request to Hugging Face's Transformers library](#), which was merged, resolving an issue encountered during Whisper model fine-tuning that was consistent with similar reported issues.

- **Software Development Intern**

[Rahnema College](#)

*Internship*

*August 2022 - November 2022*

- Selected from nearly **900 participants** for this Tapsi-sponsored boot camp.
- Gained experience in **Front-End** (TypeScript, React.js), **Back-End** (Node.js), **Android Development** (Kotlin), and **DevOps** (Docker, CI/CD).
- Worked as part of the front-end team on the [FPL project](#) alongside five other team members.

## Research Experiences

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- **AI-Driven Referee Recommendation System for [Scientia Iranica Journal](#)** Sharif University of Technology  
Supervisor: [Prof. Shohreh Kasaei \(IP Lab\)](#) February 2024 - Present
  - Contributing to an AI project for [Scientia Iranica](#), a journal of Sharif University of Technology.
  - Developing an AI model to **automate referee selection** for submitted articles, streamlining the peer-review process.
  - Designed an AI-based system to identify professors' expertise based on their published papers.
- **Research Survey on Compositional Problems of Stable Diffusion Models** Sharif University of Technology  
Supervisors: [Dr. Mahdieh Soleymani Baghshah \(ML Lab\)](#) and [Dr. Mohammad Hossein Rohban \(RIML Lab\)](#) October 2023 - Present
  - Conducting a research survey on methods to address compositional challenges (e.g., object relationships and positional consistency) in stable diffusion models.

## Highlighted Projects

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- **LLMs' Citation Benchmark** July 2024 - August 2024  
Sharif University of Technology
  - Final project for the Natural Language Processing course.
  - Built a system to **evaluate citation accuracy** in LLMs.
  - Experimented with multiple **prompt designs** to improve citation precision.
  - **Developed new metrics** to assess citation reliability.
- **[Llama 3 LoRA Fine-Tuning](#)** July 2024 - August 2024  
Sharif University of Technology
  - Completed as the final homework for the Natural Language Processing course.
  - Created a [dataset](#) focused on gender-neutralization.
  - Performed **LoRA** fine-tuning on **Llama 3** with the gender-neutral dataset.
- **[Add Validation for Maximum Sequence Length in Whisper Model of Hugging Face's Transformers Library](#)** August 2024 - September 2024  
Sokhan AI
  - Introduced a validation check for the [Whisper model in Hugging Face's Transformers library](#) to ensure label sequence length does not exceed maximum token length.
  - Enhanced model robustness and maintained consistent input dimensions.
  - Implemented tests to verify the validation mechanism.
- **[Modern Information Retrieval](#)** February 2022 - August 2023  
Sharif University of Technology
  - Comprehensive project for Modern Information Retrieval at Sharif University of Technology, completed in three phases.
  - **Phase 1:** Implemented retrieval algorithms (Vector Spaces, Okapi BM25) and data compression, then evaluated them.
  - **Phase 2:** Added classification methods (e.g., neural networks, language models) and enhanced the search engine with evaluations.
  - **Phase 3:** Developed a web crawler for [semanticscholar.org](#), implemented personalized PageRank, author ranking, a recommender system, and designed a user interface for the search engine named **Amoogle**.

## Honors and Awards

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- **Third Place** in Sharif University of Technology Table Tennis Championship (2025)
- **Selected Athlete**, Sharif University of Technology Table Tennis Team, 16th National Students' Sports Olympiad (2024)
- **Direct Master's Program Candidate** in Artificial Intelligence, Sharif University of Technology – *Highly competitive program for top-performing students* (2023)

## Volunteering Experiences

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- **Events at Sharif University of Technology:**
  - **Scientific Staff** - [Rayan AI Global Contest](#) (2024): Focused on Anomaly Detection.
  - **Technical Staff** - [Gamein](#) (2024): Front-End Web Developer.
  - **Technical Staff** - She'r ta Code (2024): Front-End Web Developer.
  - **Technical Staff** - [ICPC](#) Asian Regional, Tehran Site (2024, 2023, 2022): Supported technical operations.
  - **Technical Staff** - [Winter Seminar Series \(WSS\)](#) (2023): Front-End Web Developer.
  - **Technical Staff** - [CodoCodile](#) (2023): Front-End Web Developer.
  - **Media Staff** - [League of Coders \(LoC\)](#) (2022): Managed media coverage.
  - **Executive Staff** - [HardWar](#) (2022): Supported event execution.
  - **Branding Staff** - [SharifGame](#) (2021): Assisted in branding initiatives.
  - **Presenter** - Linux & Computer Workshops, [Saboo](#) (2021): Led workshop presentations.
- [Introduction to Programming and Algorithms: A Collaborative High School Outreach Course](#)
  - Developed in collaboration with **Sharif University of Technology** and **Quera** to introduce high school students to programming and algorithms.
  - Engaged around **2000 students**, supported by a team of approximately **100 teaching staff**.
  - Contributed by writing textbooks, creating practical exercises, and mentoring a student group to enhance their learning.
  - Recognized as **one of the top mentors** for dedication and impactful contributions to student learning.

## Other Courses

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- [Advanced Concepts in AI: System 2 AI – Sharif University of Technology](#) *Audited Graduate Course, Ongoing*
- Quantum Computing – Sharif University of Technology *Audited Graduate Course, Ongoing*
- [Advanced Large Language Model Agents – UC Berkeley](#) *Ongoing*
- [Large Language Model Agents – UC Berkeley](#) *Fall 2024*
- [Deep Learning for Computer Vision – Stanford University](#) *Self-study*

## Technical Skills

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- **Programming Languages:** Python, JavaScript, TypeScript, Java, Swift, R, C, SQL, Verilog
- **Python Libraries for AI and Data Science:** PyTorch, TensorFlow, Hugging Face Libraries (Transformers, Datasets, PEFT, Evaluate), OpenCV, scikit-learn, NLTK, NumPy, Pandas, Matplotlib, Plotly
- **Web Technologies:**
  - **Front-End:** Next.js, React.js
  - **Back-End:** Node.js, FastAPI, PostgreSQL, Redis