

AMIRMAHDI KHABOOSHANI

AI ENGINEER

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PROFESSIONAL OVERVIEW

AI Engineer with 3+ years' experience designing, developing, and deploying **machine learning** solutions across diverse domains. Specialized in architecting **multi-agent AI systems** and end-to-end model development—from data processing and algorithm selection to **training, optimization, and production deployment**. Proven ability to translate business requirements into scalable AI products, leveraging NLP, predictive analytics, and computer vision techniques to drive tangible outcomes.

WORK EXPERIENCE

Artificial Intelligence Engineer

Parstech AI co. | 2024 - Present

- Engineered **multi-agent systems** leveraging **LLMs**, enabling agents to autonomously collaborate and delegate tasks to one another for complex workflows.
- Implemented robust **LLM** tools like **LangChain** and **LangGraph** to build chatbots that use **Retrieval Augmented Generation (RAG)** techniques to answer user queries from organizational documents.
- Collaborated cross-functionally using **clean architecture** principles and **Git** to ensure high code quality, performance, and scalability, while also optimizing prompts via **prompt engineering** for optimal chatbot interactions.
- Developed a **RoBERTa**-based **language model** from scratch on Persian data by systematically tuning hyperparameters to maximize accuracy and minimize loss (Reduced training time by 30%).
- Integrated modern **optimization techniques** including DeepSpeed, mixed precision, and graph optimizations in a **distributed training setup** to enhance resource utilization and model performance.

Artificial Intelligence Developer

Vera110 | 2022 - 2024

- Designed and developed **specialized chatbots** tailored to specific domains, incorporating advanced conversational AI techniques to deliver intuitive and effective user experiences.
- Led the **fine-tuning** of large language models to optimize performance for specific tasks, achieving significant improvements in accuracy and efficiency.
- Spearheaded **Natural Language Processing (NLP)** initiatives, focusing on **audio processing**, pronunciation and grammar evaluation in sentences to enhance language understanding algorithms, reaching **high levels of accuracy up to 99%**.
- Leveraged **web scraping** techniques to construct large and diverse datasets (10000+ samples) for training language models.

EDUCATION

Master of Science:

medical informatics

Mashhad University of Medical Sciences

(focus on LLM applications in medical education)

2023 - 2025

Bachelor of Science:

computer engineering

Sadjad University of Technology

2018 - 2023

SKILLS

Programming & Frameworks

- Python
- Git
- Docker
- PyTorch
- HF Transformers
- Keras
- Scikit-Learn

AI

- Deep Learning
- NLP
- Multi-Agent Systems
- LLMs
- MLOps
- Big Data
- Pandas

Backend & Deployment

- FastAPI
- ElasticSearch
- Clean Code

Deep learning Intern

Jarfabin co. | 2023

- Collaborated with a **team of 5+ professionals** on Artificial Intelligence projects, contributing expertise in problem-solving and innovation.
- Implemented AI and deep learning technologies in real-world scenarios, specializing in computer and **image processing techniques**.
- Engineered **embedded AI** systems using **Raspberry Pi**, showcasing proficiency in hardware integration and development.

Artificial Intelligence Freelancer

2023 - present

- Worked on various AI and programming projects as a freelancer.

Teaching Assistant (Principles of Computational Intelligence)

Sadjad University of Technology | 2022

- Led weekly lab sessions for 50 undergraduate students per semester
- Demonstrated techniques like backpropagation, gradient descent, genetic algorithms in Python

PROFESSIONAL DEVELOPMENT

IELTS Academic

Overall 8.0 (Fluent in English)
2025

Coursera

Deep Learning Specialization
(Total of 5 courses)
2023

PUBLICATIONS

Xu, W., Sobhani, A., Fu, T., [Khabooshani, A.](#), et al. (2023). An analysis of ridesharing trip time using advanced text mining techniques. *Digital Transportation and Safety* 2(4):308–319 doi: 10.48130/DTS-2023-0026

[Khabooshani, A.](#), Sobhani, A., Xu, W., et al. (In progress). COVID-19, What Have You Done to My Ridesharing Quality of Service? Advanced Text Mining Techniques—USA vs India Case Study Across Different Gender and Age Groups. *Transportation Research Part F: Traffic Psychology and Behaviour*.