



EBRAHIM SHARIFI

SOFTWARE ENGINEER | AI RESEARCHER

Guangzhou, China | sharifi.ebrahim@outlook.com | [Portfolio](#)

SUMMARY

M.S. graduate specializing in Natural Language Processing (NLP) and Machine Learning with expertise in low-resource languages. Transitioned from four years of industry experience as a web developer for large-scale government projects to academic research for understanding AI fundamentals, focusing on fine-tuning Large Language Models (LLMs) for multilingual applications. Achieved notable improvements in Named Entity Recognition (NER) and Question Answering (QA) tasks for Persian and Hazaragi languages, combining technical expertise with practical, implementation-driven research.

EDUCATION

Master of Software Engineering

Sep 2021 - Jul 2024

China West Normal University - Sichuan, China

Thesis Title: "HazNERC: A Comprehensive Foundation for Hazaragi Natural Language Processing"

Supervisors: Associate Professor Wu YaJuan

GPA: 3.7

Bachelor of Computer Science

Apr 2013 - Dec 2016

Kabul University - Kabul, Afghanistan

Thesis Title: "Implementation of Location-Based Services Using GPS on Android"

Supervisors: Asst. Prof. Baseer Ahmad Baheer

GPA: 3

TECHNICAL SKILLS

Machine Learning & NLP:

- Advanced: PyTorch, TensorFlow, HuggingFace Transformers, BERT, LLaMA
- Proficient: spaCy, NLTK, Scikit-learn, Neural Networks
- Working Knowledge: Language Model Fine-tuning, Transfer Learning

Software Development:

- Advanced: Python, PHP, JavaScript, SQL
- Proficient: Laravel, REST APIs, Docker, Git
- Working Knowledge: Microservices Architecture

PROFESSIONAL EXPERIENCE

Junior Researcher, China West Normal University

Feb 2023 - Jul 2024

Key Achievements:

- Developed HazNERC dataset with 100,000+ annotated tokens, achieving 87% F1-score in NER tasks.
- Implemented custom BERT-based models improving multilingual performance by 23% compared to baseline.
- Conducted systematic review of 200+ NLP papers, identifying key trends in low-resource language processing.
- Reduced model training time by 40% through optimization of data preprocessing pipeline.

Tech Stack: Python, PyTorch, HuggingFace Transformers, BERT, LLaMA, NLTK, spaCy

Web Developer | Full-time, ADRAS LLC

May 2017 - Aug 2021

- Developed 3 core modules, improving functionality for 3,000+ users across 34 provinces.
- Optimized database queries, reducing system response time by 45% and enhancing overall performance.
- Designed and implemented scalable REST APIs to handle 10,000+ daily requests efficiently.
- Introduced automated testing and set up a CI/CD pipeline, cutting bug detection time by 60% and reducing deployment time by 70%.
- Built a real-time monitoring system with 99.9% uptime, ensuring consistent service availability.
- Mentored 5 junior developers, increasing team productivity by 25% and promoting a collaborative environment.

Tech Stack: PHP, Laravel, JavaScript, React.js, MySQL, Docker, Git, REST APIs

PROJECTS & PUBLICATIONS

HazNERC: Comprehensive Foundation for Hazaragi NLP (2023-2024) - [Github](#)

Pioneering research developing an NLP dataset and model for the Hazaragi language, paper accepted for publication in Journal of Computer and Communications. (Acceptance ID: 1732641).

Persian Question Answering System (2023-2024) - [Github](#)

Large Language Model fine-tuning research, paper accepted for publication in Network and Communication Technologies, Canadian Center of Science and Education (Acceptance ID: 23793).

PDF Chat-RAG - [Github](#)

A RAG system combining GPT and Llama3.1 models for context-based document retrieval and question answering.

Llama Local Chat - [Github](#)

A Python script for local AI chat using Ollama and LLaMA.

Web Projects:

Hospital Management Information System (2018) - [Github](#)

Full-stack web application for hospital management, available on GitHub.

Live projects:

[Education Bridge for Afghanistan](#) [Starfood CRM](#) [Stra 4 CRM](#)

LANGUAGES SKILLS

- **Persian:** Native
- **English:** Business Fluent
- **German & Mandarin:** Basic Knowledge

HOBBIES & INTERESTS

- Running HuggingFace models for personal projects
- Tracking developments in AI and NLP
- Reading recent AI and machine learning papers

AWARDS & RECOGNITION

- Alumni at China West Normal University (2024).
- Best Bachelor's Thesis of the Year, Kabul University (2016).
- Top 10 in Provincial Entrance Exam, Kabul University (2013).
- Published Article Award, Ministry of Information and Culture of Afghanistan (2013).

ACADEMIC REFERENCES

- **Dr. Wu YaJuan, Professor**
China West Normal University
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- **Prof. Baseer Ahmad Baheer, Assistant Professor**
Kabul University
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