

Erfan Shahabi

AI Software Engineer

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Tehran, Iran

EDUCATION

University Of Tehran

M.Sc in Information Technology Engineering

Supervisor: Dr. Azadeh Shakery

Sep 2024 - Present

Tehran, Iran

Islamic Azad University, Science and Research Branch

B.Sc in Industrial Engineering, GPA: 4/4 (18.07/20)

Supervisor: Dr. Abbas Saghaei

Sep 2019 - Aug 2023

Tehran, Iran

EXPERIENCES AND COURSES

Natural Language Processing

University Of Tehran - Supervisor: Dr. Hesham Faili

- Progressed from fundamental NLP concepts to advanced techniques
- Implemented a chatbot as the final project using tool-use strategies
- Utilized APIs, Transformers, Hugging Face, Langchain, Langgraph, and agents

Large Language Models

University Of Tehran - Supervisors: Dr. MJ Dousti, Dr. Y Yaghoob Zadeh

- Gained strong skills working with large language models (LLMs) through multiple practical projects
- Worked extensively with APIs, Transformers, Hugging Face, Langchain, Langgraph, and agents
- Developed use cases showcasing model integration and API utilization

Intelligent Information Retrieval

University Of Tehran - Supervisor: Dr. Azadeh Shakery

- Started with ad-hoc retrieval methods and embeddings
- Worked with BERT models for improved retrieval performance
- Explored the application of LLMs in retrieval-augmented generation (RAG)

Advanced Data Mining

University Of Tehran - Supervisor: Dr. Azadeh Shakery

- Learned data fundamentals including cleaning and preprocessing
- Covered advanced topics such as data cubes, classification, clustering, and deep learning applications
- Applied techniques in real-world datasets

Social Networks

University Of Tehran - Supervisor: Dr. Masoud Asadpour

- Studied graph theory, centrality measures, and community detection
- Applied concepts to analyze real-world network data through projects

HIGHLIGHTED PROJECTS

LLMs Course Final Project

- User Simulation for Evaluating and Improving Conversational Recommender Systems Using LLMs

NLP Course Final Project

- Chat Food: Building a Food and Restaurant Assistant Chatbot Based on LLMs Using LangGraph and React

Bachelor Thesis

- Used Car Price Prediction Based on Manufacturing Year and Mileage Using Machine Learning Methods

TECHNICAL SKILLS

- Soft Skills:** Teamwork, Meeting Tight Deadlines
- Programming Languages:** Python, Javascript
- Large Language Models:** Hugging Face, LangChain, Lang graph, LangFuse, Unsloth, PEFT, Datasets, TRL
- Databases:** ElasticSearch, Milvus, lanceDB, Redis, PostgreSQL
- Machine Learning:** PyTorch, Scikit Learn, evaluate, TensorFlow
- Retrieval:** Sentence Transformers, Lexical Retrieval, Semantic Retrieval, ColBERT, BM25