

Hossein Khalilian Gourtani

Senior AI Engineer | Machine Learning Specialist

Born 1994 in Tehran

About me

Senior AI Engineer with a Master's degree in Artificial Intelligence and over 5 years of expertise in AI, machine learning, and NLP. Specialized in designing, developing, and optimizing large language models (LLMs) such as GPT and BERT, as well as advanced NLP techniques. Proficient in scaling machine learning solutions, managing high-scale ML projects, and leading teams in delivering impactful AI solutions. Skilled in Docker, FastAPI, PyTorch, and TensorFlow for model deployment and API development. Adept at mentoring teams and driving the successful implementation of cutting-edge AI strategies.

Skills

Python

Golang

PyTorch

TensorFlow

Scikit-Learn

Large Language Models

NLP

Hugging Face Transformers

Retrieval-Augmented Generation

Docker

FastAPI

gRPC

Git

Prompt Engineering

LangChain

Vector Databases

PostgreSQL


Vector Databases


Elasticsearch


MongoDB


Software Architecture


Contact

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 hossein-khalilian.github.io

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Experience

Senior AI Engineer

Mirror Group
since November 2021

- Developed, trained, and optimized large language models (LLMs) like GPT and BERT for text classification, summarization, and translation, improving text retrieval accuracy by 25% and processing efficiency by 40%.
- Led the design and implementation of advanced NLP techniques such as Named Entity Recognition (NER) and text summarization, significantly enhancing model performance.
- Optimized Retrieval-Augmented Generation (RAG) systems for scalable AI solutions.
- Managed high-scale machine learning projects, ensuring scalability and deployment efficiency with Docker and FastAPI.
- Mentored AI teams, providing technical guidance in AI, ML, and NLP, while contributing to their professional growth.
- technologies: Python, PyTorch, Hugging Face Transformers, NLP, Large Language Models, RAG Systems, Docker, FastAPI, Vector Databases, LangChain, Prompt Engineering, Git, CI/CD

Machine Learning Engineer

Mofid Securities
April 2021 - September 2021

- Designed and implemented machine learning models for anomaly detection and image analysis using knowledge distillation techniques, achieving a 92% accuracy.
- Led the deployment of scalable models, dockerizing projects and developing APIs to ensure efficient model integration into production systems.
- technologies: Python, Docker, API Development, Knowledge Distillation Techniques

Education

Amirkabir University of Technology

M.Sc. Computer Engineering - Artificial Intelligence
2018 - 2021

Specialized in AI with a focus on distributed deep learning and NLP. Graduated 4th among 53 students.

Isfahan University of Technology

B.Sc. Information Technology
2013 - 2018

Graduated as the top student (1st rank) among 83 students. Completed a major project on the Design and Implementation of a VoIP Gateway Device.

Isfahan University of Technology

B.Sc. Electrical Engineering
2013 - 2018

Graduated in the top 10% of the class among 120 students. Acquired comprehensive knowledge in electrical engineering principles and their practical applications.