

HOSSEIN KHALILIAN

Data Scientist

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EXPERIENCE

Data Scientist

Mom Fertility Center

📅 November 2021 – Current 📍 Tehran

- Designed and improved automatic speech recognition models for Persian, achieving a WER of 7.4% for Persian common voice and an overall improvement of 28%
- Developed news article recommendation systems, increasing website traffic by 70%
- Conducted text summarization and keyword extraction using Sentence-Transformers
- Solved item matching problems for products using representation learning and vector databases, achieving a calculation time of 28ms for 6 million products
- Deployed label studio for data labeling and designed a pipeline for active learning
- Designed APIs for the systems and dockerized projects

ML Engineer

Mofid Securities

📅 April 2021 – September 2021 📍 Tehran

- Gathered, cleaned, and preprocessed data for training machine learning models
- Designed and trained models for anomaly detection in images using knowledge distillation techniques, achieving an accuracy of 92% and an improvement of 26%
- Converted and compressed trained models for improving inference time on CPU, resulting in an 88% improvement
- Dockerized projects and designed APIs for them

EDUCATION

Amirkabir University of Technology

M.Sc. Computer Engineering - Artificial Intelligence

📅 Sep 2018 – Sep 2021 📍 Tehran

- GPA: 16.91/20
- Thesis: Distributed Deep Learning for Big Data
- 4th Rank among 53 Students

Isfahan University of Technology

B.Sc. Information Technology (Double Major)

📅 Sep 2014 – Sep 2018 📍 Isfahan

- GPA: 18.08/20
- 1st Rank among 75 Students

Isfahan University of Technology

B.Sc. Electrical Engineering - Communication

📅 Sep 2013 – Sep 2018 📍 Isfahan

- GPA 18.08/20
- Top 10% among 120 students

PROFESSIONAL SKILLS

Python (NumPy, Pandas, Transformers, Huggingface)	●●●●●
PyTorch & Tensorflow	●●●●●
Machine Learning	●●●●●
Deep Learning	●●●●●
NLP	●●●●●
ASR	●●●●●
Recommender Systems	●●●●●
Semantic Search	●●●●●
Representation Learning	●●●●●
Deep Reinforcement Learning	●●●●●
Graph Neural Networks	●●●●●
SQL & NoSQL	●●●●●
Mathematics & Statistics	●●●●●
Linear Algebra	●●●●●
Problem Solving	●●●●●
Data Visualization	●●●●●
gRPC & FastAPI	●●●●●
Docker	●●●●●
Git	●●●●●

LANGUAGES

Persian	●●●●●
English	●●●●●

PROJECTS

📅 May 2021 – July 2021

- Liveness Detection using Knowledge Distillation techniques for Anomaly Detection

📅 September 2019 – July 2021

- Solving Placement Problem for Deep Neural Networks using Deep Reinforcement Learning and Graph Representation Learning techniques

📅 October 2017 – June 2019

- Detection of Earth Dam Breaching by image processing techniques

📅 June 2017 – June 2018

- Design and Implementation of VoIP Gateway

REFERENCES

Dr. Maryam Amir Haeri

@ University of Twente

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Relation: Master thesis supervisor

Dr. Amir Hossein Payberah

@ KTH Royal Institute of Technology

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Relation: Master thesis advisor