

HOSSEIN KHALILIAN

Data Scientist

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EXPERIENCE

Data Scientist

Mom Fertility Center

📅 November 2021 – Current

📍 Tehran

- Designing and Improving Automatic Speech Recognition Models for Persian
- Developing News Article Recommendation Systems
- Text Summarization and Keyword Extraction using Sentence-Transformers
- Solving Item Matching Problem for Products using Vector Databases and Approximate Nearest Neighbor Search Algorithms
- Developing APIs for the Systems and Dockerizing Projects

ML Engineer

Mofid Securities

📅 April 2021 – September 2021

📍 Tehran

- Gathering, cleaning, and preprocessing data for training models
- Designing and training models for anomaly detection in images using knowledge distillation techniques
- Exporting and compressing trained models for improving inference time
- Dockerizing projects and designing 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

VOLUNTARY WORKS

- Senior Member and Head of Electrical Engineering Students Scientific Association
- Member of organizing committee in IUT Startup Weekend
- Teacher Assistant of Machine Learning and Computer Networks Courses, and Mentor of Computer Networks Lab

PROFESSIONAL SKILLS

Python (NumPy, Pandas, Transformers, Selenium)

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 Products

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

✉ m.amirhaeri@utwente.nl

Relation: Master thesis supervisor

Dr. Amir Hossein Payberah

@ KTH Royal Institute of Technology

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Relation: Master thesis advisor