HOSSEIN KHALILIAN

Data Scientist

✉ hse.khalilian08@gmail.com   📞 +989205202400   in linkedin.com/in/hosein-khalilian   ⌨ github.com/hossein-khalilian

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 Keyboard 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 Representaion 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

✉ payberah@kth.se

Relation: Master thesis advisor