

## **Majid Farzaneh**

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### **Quick Introduction:**

- More than 9 years' experience in AI/ML
- Experience in research projects as well as industrial and commercial products
- Experience in team management and startup running
- Very passionate to progress
- Interested in new challenges and problem-solving
- Master's degree in Audio Engineering

Languages: Persian (Native), English (IELTS Overall: 7), Arabic (Basic)

## Professional Experiences:



### Rassam Rasha Vira

- A.I. Engineer  
Sep 2023- present

*HealthcareIT (Rassam Rashaye Vira)*, by designing and implementing the SHIFT Schedule platform that enables networking, tries to update the writing style of nurses' scheduled shifts from traditional paper base method to modern paperless method. As an A.I. engineer I am working on different evolutionary computing method to maximize work-life balance in hospitals shift schedulers.



### Barande

- ML Engineer  
Jan 2023 – Oct 2023

*Barande* is an online platform like Zillow to sell/buy/rent real states in Iran. My responsibility at *Barande* is developing ML models, cooperating with the back-end team to use ML models in the product, and supervising the data team in data gathering/cleaning, and annotating to enhance the user experience and prevent abusing the platform. Some of my done projects at *Barande* are as below:

- NSFW detection in Images: classify images as normal or NSFW (e.g. nudity, adult content, etc.)
- Image watermark detection: to find out if an image contains a watermark (e.g. a logo from a competitor)
- Automatic face blurring: for privacy preserving
- Image fingerprinting: to prevent uploading duplicated images
- Furnished/non-furnished home classification
- House/apartment sections classification
- Spam text filtering
- House/apartment price estimation



### HODA Technology [www.hodatech.ir](http://www.hodatech.ir)

- CEO  
- Computer  
Vision  
Engineer  
- ML Engineer  
Feb 2020 – March  
2023

*Hoda Tech.* is an AI-powered company that I started with two other co-founders in 2020 and exited in March 2023. In this company, I worked as both the CEO and the technical head, and since the company's projects were mainly in the field of AI, I developed a significant part of the projects myself. Some of client projects (AI-related ones) are:

- **Integrated Smart Surveillance System (ISSS) Software (Client: Ariapa Co.):** Developing different image/video processing and machine vision models, i.e. face identification, object detection, human tracking, video summarization, motion analysis, false alarms controlling, and anomaly detection (fire, smoke, etc.)
- **Ad. Ruler IoT service (Client: Farpouya Co.):** a computer vision – based out-of-home advertisement analyzer. I've developed several CV models such as Pedestrian Tracking, Face Detection, Person Re-identification, Age Estimation, Face Expression Recognition, Gender Recognition, and Head Pose Estimation for both powerful server and edge devices.

- **Crystal Analysis Software (Client: Chamran university):** Sugar crystal analysis for Sugar Co. of Ahwaz using deep neural networks and semantic segmentation.
- **OptiCon Software:** Optimizing Concrete Structures Using Genetic Algorithm and ETABS software and reducing more than 10% of the rebar cost.
- **Rahdan Software (Client: Road and Transport Organization of Ahwaz, Khuzestan):** A decision support system based on fuzzy inference system, AHP, and genetic optimization to set the priority of roads repairing.
- **ChatPack (Client: Divar.ir):** Development of a chat-bot for predicting answers between seller/buyer users on Divar.ir platform (Natural Language Processing).



**Freelancer**  
2012-2020

I started working as a freelancer in the middle of my bachelor's studies and did many projects in different fields for more than 8 years. So that I did more than 200 research projects in the fields of computer vision, natural language processing, data science, evolutionary computing, fuzzy logic, optimization, medical engineering, etc.

I have also participated in industrial projects such as quality control of ceramic tiles with the help of machine vision, and panorama image generation from multiple cameras, etc.



**Startup Founder**  
2020 - Present








During my professional life, I launched several startups independently or in the subset of HODA Tech company:

- **GAG:** Genetic Algorithm Music Generator (2023)
- **BEST.ir:** an E-Learning platform (2022)
- **Auto-marker:** a robot based on paintball marker and computer vision for aiming and firing automatically (2021 - I've exited)
- **Expert Birds:** a freelancing platform (2020 - failed)

## Skill set:



## Awards, Honors, and Competition Winnings:

Organizers	Details
	<b>Irancell Labs A.I. Hackathon Winner</b> Some NLP and Data Science challenges <a href="https://quera.org/certificate/Ccgz6Cm/">https://quera.org/certificate/Ccgz6Cm/</a>
	<b>DueML Chess Competition (March-April 2023): 1<sup>st</sup> place (<a href="#">Report Link</a>)</b> Computer vision challenges for chess game analysis and prediction
	<b>Code Cup7 Data Science Path (2022): 1<sup>st</sup> place (<a href="#">Leaderboard</a>)</b> Some NLP and Data Science challenges
	<b>Divar-Javaneh Hackathon (2022): 2<sup>nd</sup> place (<a href="#">Report Link</a>)</b> Fraud detection in real estate ads on divar.ir
	<b>Innomine3 Mine Problem (2021): 1<sup>st</sup> place (<a href="#">Leaderboard</a>)</b> Computer vision challenge to analyze the mining results automatically
	<b>Football Data Science Competition (2021) – 1<sup>st</sup> place (<a href="#">Leaderboard</a>)</b> Data Science challenges: football data analysis, predicting the goal probability, etc.
	<b>IRIB University Best Thesis Award – 2019</b> Perfect grade for the thesis at 3 <sup>rd</sup> semester; title: Music generation using an interactive evolutionary algorithm

## Academic and Research Background:

### EDUCATION

- 2017-2019: M.Sc. Audio Engineering, Iran Broadcasting University, Tehran.
  - Dissertation Title: Automatic Music Generation using an Interactive Evolutionary Algorithm and Long Short-Term Memory
- 2009 – 2014: B.Sc. Electrical Engineering, Jondi-Shapour University of Technology, Khuzestan, Iran.

### Google Scholar

- Citations: 48
- H-index: 4
- I10-index: 3

### Preprint (arXived):

- 1- Farzaneh, Majid. "Arcface Knows the Gender, Too!". <https://arxiv.org/abs/2112.10101>
- 2- Farzaneh, Majid, and Rahil Mahdian Toroghi. "GGA-MG: Generative Genetic Algorithm for Music Generation". <https://arxiv.org/pdf/2004.04687>

### Conference Papers:

### PUBLICATIONS

- 3- Farzaneh, Majid, and Rahil Mahdian Toroghi. "Robust Audio Watermarking Using Graph-based Transform and Singular Value Decomposition." 2020 10th International Symposium on Telecommunications (IST). IEEE, 2020. (Oral Presentation – Best Paper), Link: <https://ieeexplore.ieee.org/document/9345876>
- 4- Farzaneh, Majid, and Rahil Mahdian Toroghi. "Music Generation Using an Interactive Evolutionary Algorithm." Mediterranean Conference on Pattern Recognition and Artificial Intelligence. Springer, Cham, 2019. (Oral Presentation), Link: [https://link.springer.com/chapter/10.1007/978-3-030-37548-5\\_16](https://link.springer.com/chapter/10.1007/978-3-030-37548-5_16)
- 5- Farzaneh, Majid, Rahil Mahdian Toroghi, and Mohammad Asgari. "Audio Compression Using Graph-based Transform." 2018 9th International Symposium on Telecommunications (IST). IEEE, 2018. Link: <https://ieeexplore.ieee.org/document/8661027>

### JOURNAL REVIEW

- 1- Springer, Evolutionary Intelligence