

# Mohammad Hossein Mohammadi

## Curriculum Vitae

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📁 [MohammadiMH76.github.io](https://github.com/MohammadiMH76)

## INTERESTS

- Artificial Intelligence, Machine Learning
- Optimization Algorithm, Neural & NeuroFuzzy Network
- Computer Vision, Signal and Image Processing

## EDUCATION

2015–2020 **BSc in Computer Engineering (Information Technology)**, Department of Computer Engineering, *Islamic Azad University, Najafabad Branch, Najafabad, Iran.*

- Cumulative GPA .../4 (.../20)
- Last 2 years' GPA .../4 (.../20)
- **Thesis Title** : Using Machine Learning Techniques for Accurate and Early Identification of Diabetes and it's Affecting Factors
- **Supervisor** : Dr.Mohammad Naderi Dehkordi

2011–2015 **Diploma in Mathematics and Physics**, *Sheikh Ansari High School, Isfahan, Iran..*

- GPA 18.53/20

## PATENTS

- [P1] S.Y.Moradi, **M.H.Mohammadi**, " The system for early detection of Heterochromia disease in the neonates ", *Provisional Patent*.
- [P2] S.Y.Moradi, **M.H.Mohammadi**, S.Yaser.Moradi " The system for early detection of Wilson disease in the neonates ", *Provisional Patent*.
- [P3] S.Y.Moradi, **M.H.Mohammadi**, P.Mohammadi " Pocket Protector Of Sensitive Injective And Inhalant Vials Against Temperature And Impact Changes ", *Iran Patent*.
- [P4] S.Y.Moradi, **M.H.Mohammadi**, A.Anvari " Energy Waste Reduction System based on prediction of people's presence and working time in industries and medical centers ", *Iran Patent*.
- [P5] S.Y.Moradi, S.Z.Moradi, **M.H.Mohammadi** " Coupling device temperature to body temperature for ambulances and hospitals sera ", *Iran Patent*.
- [P6] S.Y.Moradi, **M.H.Mohammadi** " Temperature and oxygen saturation monitoring of IoT incubator baby ", *Iran Patent*.
- [P7] S.Y.Moradi, **M.H.Mohammadi** " The system for early detection of Diabetic retinopathy disease in the neonates ", *Iran Patent*.

## PUBLICATIONS

- [B1] **M.H.Mohammadi**, A.Karimi, S.Y.Moradi. " *A Step-By-Step Guide to Patenting in Iran* ". Tehran,Iran.Arna.2020.Publication Medium.

- [B2] A.Salehi, S.Y.Moradi, **M.H.Mohammadi**, M.Radaei. "*Principles Of Image Compression in The Medical and Aerial Image By MATLAB Software*". Tehran,Iran.Arna.2021.Publication Medium.
- [B3] S.Y.Moradi, **M.H.Mohammadi**, M.Radaei. "*Basics of Brain and Computer Interfaces*". Tehran,Iran.Arna.2021.Publication Medium.
- [B4] **M.H.Mohammadi**, S.Y.Moradi, M.Siampour. "*CEH(Certified Ethical Hacker)*". Tehran,Iran.Arna.2021.Publication Medium.
- [B5] S.Y.Moradi, **M.H.Mohammadi**. "*Basics of Internet of Things (IOT)*". Tehran,Iran.Arna.2021.Publication Medium.
- [B6] A.Salehi, **M.H.Mohammadi**, S.Y.Moradi. "*Hands On Computer Vision with Julia*". Tehran,Iran.Arna.2021.Publication Medium.
- [B7] **M.H.Mohammadi**, A.Karimi. "*Implement Meta-heuristic algorithms by the Python language programming*". Coming Soon.
- [J1] S.Y.Moradi, M.Akbari Moghaddam, **M.H.Mohammadi**, " Computer Modeling of Information Transmission Principles and Methods in Telemedicine Networks " , *Journal of Rafsanjan University of Medical Sciences (JRUMS)*, 2018.
- [C1] S.Y.Moradi, M.Akbari Moghaddam, **M.H.Mohammadi**, " Telemedicine Methods; Basics, Design, and Optimization " , *3rd International conference on Modern Approaches in Science, Technology and Engineering*, 2018

## HONORS & AWARDS

- Sep 2019 **2<sup>nd</sup> Team Rank**, 7th Mobile Programming Marathon along with the "Chelesme" team members, 85 teams participated from Iran, *Sharif University of Technology, Tehran, Iran*.
- Sep 2017 **3<sup>rd</sup> Team Rank**, 4th Mobile Programming Marathon along with the "Yakhmak" team members, 90 teams participated from Iran, *Sharif University of Technology, Tehran, Iran*.
- Jun 2015 **Top 2 %**, Nationwide entrance exam of Iranian Universities, very competitive with nearly 250,000 participants.

## RESEARCH & VOLUNTEER WORK

- 2018–2019 **Isfahan University Machine Learning Laboratory**, *Isfahan, Iran*.  
**Topics:** Computer Vision, Signal and Image Processing
- Apr 2018 **Team Manager**, *Tebyan Cultural, "13th Student Projects Festival" Shahid Beheshti University International Conference Center, Tehran, Iran*.
- Oct 2016 - **International Conference on Computer Science and Engineering**, *Faculty of Computer Engineering Islamic Azad University, Najafabad Branch, Isfahan, Iran*.
- Apr 2017
- Jul 2017 **Open Source Softwares Conference & Ubuntu 17.04 Release Party**, *Speaker: "How to Prevent DOS & DDOS Attacks on Linux Servers, University of Isfahan, Isfahan, Iran*.
- Nov 2017 - **International Federation of Red Cross and Red Crescent Societies - IFRC**, *Isfahan & Kermanshah, Iran*.
- Mar 2020  
Rescue Team

## WORK EXPERIENCE

- May 2020 - **Freelance Designer**, *UpWork, Mountain View, CA*.
- Jun 2020

- Jan 2018 - **Researcher and Patentable**, *Iran Patent Center (Kanoon IPC), Tehran, Iran* .  
Jun 2020
- May 2016 - **Internship & Work - Android Developer**, *ITBarbod Company, Isfahan, Iran* .  
Aug 2016
- May 2016 - **Internship - Android Developer, UI & UX Design**, *Aron Company, Isfahan, Iran* .  
Aug 2016

## SELECTED PROJECTS

- Oct 2017 **Reverse Engineering Borescope Video Device**: S.Y.Moradi, M.H.Mohammadi, Iran.
- Aug 2020 Using Machine Learning Techniques for Accurate and Early Identification of Asthma and its Affecting Factors
- Aug 2020 Using Machine Learning Techniques for Accurate and Early Identification of Myocardial infarction and its Affecting Factors
- Jul 2019 Development of car license plate recognition software
- Nov 2019 Remote Temperature Monitoring and Controlling Via Sending Text Messages (Intelligent Thermostat)
- Nov 2019 Intelligence and control of home appliances by the microcontroller
- Jul 2018 Development of face recognition software using the Viola-Jones algorithm

## SKILLS

- Technical Skills JAVA, MATLAB, Python, R, C,C++ | SQL, XML, HTML, CSS, Wordpress | Ubuntu Linux, Kali Linux, Microsoft Windows Server, Microsoft Windows
- Tools and Softwares Wireshark, SAMtools, MetaVelvet, BLAST - NCBI, MetaPIAn, SPSS | Android Studio, RStudio, Pycharm, Eclipse, MS Visual Studio, IntelliJ, Git, Inventor, Sentry MBA | Adobe XD, Adobe Photoshop, Adobe InDesign

## LANGUAGES

- Persian Mother Tongue
- English Moderate
- TOEFL (Will be taken at Sep 11th, 2021)
  - GRE (Will be taken at Sep 11th, 2021)

## REFERENCES

- **Dr. Behrang Berekatain**, Professor  
Department of Computer Engineering, *Islamic Azad University, Najafabad Branch*  
Post Doctoral from Ryerson University, Ontario, Canada  
Email : [behrang\\_berekatain@yahoo.com](mailto:behrang_berekatain@yahoo.com)
- **Dr. Mohammad Naderi Dehkordi**, Assistant Professor  
Department of Computer Engineering, *Islamic Azad University, Najafabad Branch*  
Phd from Islamic Azad University Science and Research Branch, Tehran, Iran  
Email : [naderi@iaun.ac.ir](mailto:naderi@iaun.ac.ir)
- **Dr. Mehdi Jabalameli**, Assistant Professor  
Department of Computer Engineering, *Islamic Azad University, Najafabad Branch*  
Phd from University of Isfahan, Isfahan, Iran  
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