

Mohammad Hossein Mohammadi

Curriculum Vitae

Kooye Daneshgah

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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 2.66/4 (14.37/20)
- 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 .../4 (18.53/20)

PATENTS

- [1] S.Y.Moradi, **M.H.Mohammadi**, " The system for early detection of Heterochromia disease in the neonates ", *Provisional US Patent*.
- [2] S.Y.Moradi, **M.H.Mohammadi**, S.Yaser.Moradi " The system for early detection of Wilson disease in the neonates ", *Provisional Patent*.
- [3] S.Y.Moradi, **M.H.Mohammadi**, P.Mohammadi " Pocket Protector Of Sensitive Injective And Inhalant Vials Against Temperature And Impact Changes ", *Iran Patent*.
- [4] 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*.
- [5] S.Y.Moradi, S.Z.Moradi, **M.H.Mohammadi** " Coupling device temperature to body temperature for ambulances and hospitals sera ", *Iran Patent*.
- [6] S.Y.Moradi, **M.H.Mohammadi** " Temperature and oxygen saturation monitoring of IoT incubator baby ", *Iran Patent*.
- [7] S.Y.Moradi, **M.H.Mohammadi** " The system for early detection of Diabetic retinopathy disease in the neonates ", *Iran Patent*.

PUBLICATIONS

- [1] **M.H.Mohammadi**, S.Y.Moradi, A.Karimi, " A Step-By-Step Guide to Patenting in Iran ", *Publisher , Iran*.

- [2] **M.H.Mohammadi**, A.Karimi, S.Y.Moradi, " Transcendental algorithms, Theoretical foundations, and implementation in Python " , *Publisher , Iran*.
- [3] A.Salehi, S.Y.Moradi, **M.H.Mohammadi**, " Compression of aerial and medical images in MATLAB " , *Publisher , Iran*.
- [4] **M.H.Mohammadi**, M.Siampour, S.Y.Moradi, " CEH(Certified Ethical Hacker) " , *Publisher , Iran*.
- [5] A.Salehi, **M.H.Mohammadi**, S.Y.Moradi " Hands-On Computer Vision with Julia " , *Publisher , Iran*.
- [6] 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.
- [7] 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 **2nd 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 **3rd 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 Nov 21th, 2020)
 - GRE (Will be taken at Nov 16th, 2020)

REFERENCES

- **Dr. Behrang Barekatin**, Professor
Department of Computer Engineering, *Islamic Azad University, Najafabad Branch*
Post Doctoral from Ryerson University, Ontario, Canada
Email : behrang_barekatin@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
- **Dr. Mehdi Jabalameli**, Assistant Professor
Department of Computer Engineering, *Islamic Azad University, Najafabad Branch*
Phd from University of Isfahan, Isfahan, Iran
Email : mjameli@yahoo.com