

# Mohammad Saleh Ebrahimi Shahabadi

✉ [salehebrahimi60@gmail.com](mailto:salehebrahimi60@gmail.com)

☎ +98 921 087 8398

🌐 [isalehebrahimi.github.io](https://isalehebrahimi.github.io)

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## Education

### Academic education

- Since 2017 **Bachelor of Science in Computer Science**, *Shahid Bahonar University, Kerman, Iran*.  
CGPA: 3.37/4, Major GPA: 3.84/4 Ranked 3<sup>rd</sup> out of 75+ students.
- 2014–2017 **Bachelor of Science in Mechanical Engineering**, *Shahid Bahonar University, Kerman, Iran*, Changed major to Computer Science.  
*Admission requirement is being ranked in the 99th percentile in Nationwide University Entrance Exam (Concours).*

## Research Interests

Artificial Intelligence, Machine learning, Deep Learning, Data Mining

## Publications

- 2019 **A Novel Hybridization of Self-adaptive Multi-verse Optimizer over K-Means for Data Clustering**, Hamed Tabrizchi, **Mohammad Saleh Ebrahimi Shahabadi**, Marjan Kuchaki Rafsanjani.  
*Proceeding of IEEE at 8<sup>th</sup> Joint Congress on Fuzzy and Intelligent Systems, Mashhad, Iran, 2020*
- A Combination of Clustering-based Under-sampling with Ensemble Approach for Solving Imbalanced Class Problem in Intelligent Systems**,  
**Mohammad Saleh Ebrahimi Shahabadi**, Hamed Tabrizchi, Marjan Kuchaki Rafsanjani, B. B. Gupta, Francesco Palmieri.  
*International Journal of Intelligent Systems (Under review)*

## Projects

- 2015-2017 **Smart wristband for the elderly**.  
**Objective:** Designing a wristband for the elderly to record vital signs and track location in case of an emergency.  
**Description:** The first series of smart wristbands was designed by a group of active students of the Robotics and Mechatronics Association as a research project under my supervision, passed the design stage and entered the laboratory model construction stage.

## Certificates [\(click to view the certificate\)](#)

Neural Networks and Deep Learning | [deeplearning.ai](#)  
Improving Deep Neural Networks | [deeplearning.ai](#)  
Structuring Machine Learning Projects | [deeplearning.ai](#)  
Convolutional Neural Networks | [deeplearning.ai](#)  
Data Science Math Skills | Duke University  
How to Write and Publish a Scientific Paper (Project-centered Course) | École Polytechnique  
Intro. to TensorFlow for AI, ML, and Deep Learning | [deeplearning.ai](#)  
Machine Learning with Python | IBM

## Technical Skills

**Programming**, Python, C/C++, MATLAB.  
**Scripting**,  $\text{\LaTeX}$ , HTML, CSS.  
**Machine Learning**, PyTorch, TensorFlow, Keras, Scikit-Learn.  
**Data Management**, Tableau, Pandas, SQL Server.  
**Operating Systems**, Linux, Windows.

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## Experience

### Teaching Experience

Fall Sem. **Advanced Programming Teaching Assistant**, *Shahid Bahonar University*.

2018 I was in charge of giving out programming assignments, grading them and holding extra class sessions to solve programming exercises.

### Research Experience

Since 2018 **Research Assistant**, *Department of Computer Science, Shahid Bahonar University*.

### University Services

Since 2019 **Data Mining and Machine Learning Group Member**, *Mahani Mathematical Research Center, Shahid Bahonar University*, Attended weekly discussions, gave advice to other members and held a lecture: Clustering-based feature selection (with A. Hassani - 2019).

2019 **3<sup>rd</sup> Saba Programming Contest Technical Team Member**, *Shahid Bahonar University*, I was in charge of technical coordination and my responsibilities included setting up the computers and the network for the contest..

2016-2018 **Head of Mechanical Engineering Scientific Student Association**, *Department of Mechanical Engineering, Shahid Bahonar University*.

As the Head of association, I was in charge of holding extra-curricular courses and student guidance. During my tenure, the association won the 9<sup>th</sup> university-wide HAREKAT award. (1<sup>st</sup> ranked association in the University)

- Held conferences to acquaint students with various fields of mechanical engineering
- Held various courses for Mechanical Engineering related software for undergraduate students
- Worked on industrial research projects

2015-2017 **Editor-in-chief of "Tik" Scientific Journal**, *Shahid Bahonar University*, Honorary student scientific journal at the 7<sup>th</sup> university-wide HAREKAT competition.

2015-2016 **Robotics and Mechatronics Student Association Member**, *Shahid Bahonar university*.

Worked on various projects and attended in national and international robotic and mechatronic competitions. Some of my work includes:

- Held computer programming, electronics and mechanical design courses for students
- Gave advice to students interested in robotics
- Worked on industrial research projects
- Published "Tik" student scientific journal

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## Honors and Awards

2020 **Distinguished Undergraduate Researcher**, *Department of Mathematics and Computer Science, Shahid Bahonar University*, Awarded distinguished researcher among Computer Science students for researches conducted in Machine Learning.

2018 **1<sup>st</sup> Rank Scientific Association**, *Presented by the Vice Chancellor of Shahid Bahonar University*, Honored as the **President of Mechanical Engineering Student Scientific Association**, which was chosen as the distinguished association among all scientific associations (80+) in Shahid Bahonar University.

2017 **1<sup>st</sup> Rank Scientific Association**, *Presented by the Minister of Science, Research and Technology of Iran*, Honored as a member of Robotics and Mechatronics Student Scientific Association, which **was chosen as the distinguished association among all scientific associations (9000+) in Iran in the 9<sup>th</sup> National HAREKAT Competition..**

**1<sup>st</sup> Rank Scientific Association**, *Presented by the Vice Minister of Science, Research and Technology of Iran*, Honored as a member of Robotics and Mechatronics Student Scientific Association, which **was chosen as the distinguished association among all scientific associations (9000+) in Iran in the 9<sup>th</sup> National HAREKAT Competition..**

**1<sup>st</sup> Rank Scientific Association in the Invention Competition**, *Presented by the Vice Minister of Science, Research and Technology of Iran*, Honored as a member of Robotics and Mechatronics Student Scientific Association, which **was chosen as the distinguished association among all scientific associations (9000+) in Iran in the 9<sup>th</sup> National HAREKAT Competition..**

2016 **1<sup>st</sup> Rank Scientific Association**, *Presented by the Vice Chancellor of Shahid Bahonar University*, Honored as a member of Robotics and Mechatronics Student Scientific Association, which **was chosen as the distinguished association among all scientific associations (80+) in Shahid Bahonar University**.

**Honorary Student Scientific Journal Award**, *Presented by the Vice Chancellor of Shahid Bahonar University*, Honored as a member of Robotics and Mechatronics Student Scientific Association, **honorary student scientific journal award winner among all scientific associations (80+) in Shahid Bahonar University**.

**1<sup>st</sup> Rank Scientific Association in Creativity**, *Presented by the Vice Chancellor of Shahid Bahonar University*, Honored as a member of Robotics and Mechatronics Student Scientific Association, which **was chosen as the distinguished association in the creative association competition among all scientific associations (80+) in Shahid Bahonar University**.

**1<sup>st</sup> Rank Scientific Association in Innovation**, *Presented by the Vice Chancellor of Shahid Bahonar University*, Honored as a member of Robotics and Mechatronics Student Scientific Association, which **was chosen as the distinguished association in the innovative association competition among all scientific associations (80+) in Shahid Bahonar University**.

**1<sup>st</sup> Rank Scientific Association in Entrepreneurship**, *Presented by the Vice Chancellor of Shahid Bahonar University*, Honored as a member of Robotics and Mechatronics Student Scientific Association, which **was chosen as the distinguished association in the innovative association competition among all scientific associations (80+) in Shahid Bahonar University**.

## Languages

English Professional working proficiency  
Persian Native speaker

## Test Score

I've planned to attend in TOEFL IBT exam by the 15<sup>th</sup> of October 2020

## References

### Marjan Kuchaki Rafsanjani

Associate professor at department of Computer Science, Shahid Bahonar University.  
[kuchaki@uk.ac.ir](mailto:kuchaki@uk.ac.ir)

### Arsham Borumand Saeid

Professor at the department of Pure Mathematics, Shahid Bahonar University.  
[arsham@uk.ac.ir](mailto:arsham@uk.ac.ir)

### Ali Mohammad Shafei

Associate professor at department of Mechanical Engineering , Shahid Bahonar University.  
[shafei@uk.ac.ir](mailto:shafei@uk.ac.ir)