

# Mohammad Saleh Ebrahimi Shahabadi

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🌐 [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 of Kerman, 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 of Kerman, Kerman, Iran*, Changed major to Computer Science.

*Admission requirement is being ranked in the 99th percentile in Nationwide University Entrance Exam (Concours).*

### 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.

## Research Interests

**Computer Vision**, human activity recognition, object detection, object recognition, instance segmentation, self-supervised learning, human body pose estimation.

**Natural Language Processing**, Latent semantic analysis, Text clustering, Bias elimination, Emotion and sentiment analysis.

**Data Mining**, Parallel Spectral Clustering in Distributed System, Unsupervised content-based recommendation systems.

## Publications

2019 **Mohammad Saleh Ebrahimi Shahabadi, Hamed Tabrizchi, Marjan Kuchaki Rafsanjani.**

A combination of Clustering-based Under-sampling to overcome Imbalanced Class problem.

*Under review at Pattern recognition*

**Hamed Tabrizchi, Mohammad Saleh Ebrahimi Shahabadi, Marjan Kuchaki Rafsanjani.**

A Novel Hybridization of Self-adaptive Multi-verse Optimizer over K-Means for Data Clustering.

Accepted at 8<sup>th</sup> Joint Congress on Fuzzy and Intelligent Systems - under the supervision of IEEE.

## 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 in Shahid Bahonar University of Kerman as a research project under my supervision, passed the design stage and entered the laboratory model construction stage.

## Experience

### Teaching Experience

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

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 of Kerman*.

### University Services

Since 2019 **Data Mining and Machine Learning Group Member**, *Mahani Mathematical Research Center, Shahid Bahonar University of Kerman*., 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 of Kerman, Kerman, Iran*, 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 of Kerman, Kerman, Iran*.

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 of Kerman, Kerman, Iran*, 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 of Kerman, Kerman, Iran*.

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

## Honors and Awards

2020 **Distinguished Undergraduate Researcher**, *Department of Mathematics and Computer Science, Shahid Bahonar University of Kerman*., 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 of Kerman*, 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 of Kerman.

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 of Kerman*, 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 of Kerman.

**Honorary Student Scientific Journal Award**, *Presented by the Vice Chancellor of Shahid Bahonar University of Kerman*, 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 of Kerman.

**1<sup>st</sup> Rank Scientific Association in Creativity**, *Presented by the Vice Chancellor of Shahid Bahonar University of Kerman*, 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 of Kerman.

**1<sup>st</sup> Rank Scientific Association in Innovation**, *Presented by the Vice Chancellor of Shahid Bahonar University of Kerman*, 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 of Kerman.

**1<sup>st</sup> Rank Scientific Association in Entrepreneurship**, *Presented by the Vice Chancellor of Shahid Bahonar University of Kerman*, 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 of Kerman.

## 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 of Kerman.  
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**Arsham Borumand Saeid**

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

**Ali Mohammad Shafei**

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