# Mohammad Saleh Ebrahimi Shahabadi

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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$^{rd}$ 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**, 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$^{th}$ 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$^{rd}$ 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$^{th}$ university-wide HAREKAT award. (1$^{st}$ 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$^{th}$ university-wide HAREKAT competition.

**2015-2016** **Robotics and Mechatronics Student Association Member**, *Shahid Bahonar university of Kerman, Kerman, Iran*.
Worked one 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$^{st}$ 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$^{st}$ 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$^{th}$ National HAREKAT Competition.**.

**1st 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 9th National HAREKAT Competition.**.

**1st 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 9th National HAREKAT Competition.**.

2016    **1st 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**.

**1st 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**.

**1st 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**.

**1st 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

## 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.
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**Ali Mohammad Shafei**
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