
ZAHRA AREFZADEH

+98 (939) 213 1008

zahra.arefzadeh@gmail.com

[LinkedIn](#)

EDUCATION

Master of Science in Computer Engineering – Artificial Intelligence | 2020 – 2023

Shiraz University, Shiraz, Iran

GPA: 3.86/4.0

Thesis Title: An oversampling method based on fuzzy clustering and SMOTE

Thesis Grade: 18.9/20

Supervisor: Dr. Sattar Hashemi

Bachelor of Science in Computer Engineering – Software Engineering | 2015 – 2020

Persian Gulf University, Bushehr, Iran

GPA: 3.27/4.0

Last Two Years GPA: 3.90/4.0

Final Project Topic: Analyzing users' reviews using deep recurrent neural network and NLP

Final Project Grade: 20/20

Supervisor: Dr. Saeed Talatian Azad

RESEARCH INTERESTS

- Machine Learning Algorithms
 - Imbalanced Data Classification
 - Computer Vision and Deep Learning
 - Natural Language Processing (NLP)
 - AI for Healthcare
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PUBLICATIONS

- **Zahra Arefzadeh**, Sattar Hashemi; "Enhancing Imbalanced Learning: An Oversampling method based on Fuzzy C-Means and SMOTE"; Information Sciences Journal (**Under Review**)
 - **Zahra Arefzadeh**, Sattar Hashemi; "Addressing Class Imbalance Learning with a Clustering-based Ensemble of Two-Step Oversampled Data"; Expert Systems with Applications Journal (**In Prep.**)
 - **Zahra Arefzadeh**, Erfan Dehghani, Mohammad Bozorgmehr; "ADASYN Enhanced: Imbalanced Data Classification with Advanced Noise Filtering" (**In Prep.** Target Journal: 1st International Biennial Conference of Artificial Intelligence and Data Science 2024)
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PUBLICATION REVIEWS

- Reviewed 3 Paper for "Information Sciences Journal," 2023
 - Reviewed 2 Paper for "Shahid Bahonar University of Kerman," 2023
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WORKSHOP

- Participated in the "14th International Summer School on Software Engineering (ISSSE 2021)", University of Salerno, Italy, 2021

TEACHING EXPERIENCE

Private Teacher & Mentor | June 2021 – Present

Online

Description: Actively assisting Master's and Ph.D. students with academic papers and theses

Lecturer | Spring 2024

Persian Gulf University, Bushehr, Iran

Course: Operating systems

Lecturer | Spring 2024

Persian Gulf University, Bushehr, Iran

Course: Operating System Lab (Linux)

Lecturer | Spring 2024

Persian Gulf University, Bushehr, Iran

Course: User Interface Design (UI/UX)

Lecturer | Fall 2023

Persian Gulf University, Bushehr, Iran

Course: Operating systems

Lecturer | Fall 2023

Persian Gulf University, Bushehr, Iran

Course: Database System Implementation

Teaching Assistant | Spring 2023

Shiraz University, Shiraz, Iran

Course: Machine Learning

Supervisor: Dr. Sattar Hashemi

Teaching Assistant | Spring 2022

Shahid Beheshti University, Tehran, Iran

Course: Deep Learning

Supervisor: Dr. Sattar Hashemi

Teaching Assistant | Spring 2022

Shiraz University, Shiraz, Iran

Course: Machine Learning

Supervisor: Dr. Sattar Hashemi

Teaching Assistant | Spring 2021

Shiraz University, Shiraz, Iran

Course: Machine Learning

Supervisor: Dr. Sattar Hashemi

Teaching Assistant | Fall 2021

Shiraz University, Shiraz, Iran

Course: Statistical Pattern Recognition

Supervisor: Dr. Zohreh Azimifar

Teaching Assistant | Fall 2018

Persian Gulf University, Bushehr, Iran

Course: Operating Systems Laboratory (Linux)

Supervisor: Dr. Maryam Ashkpour

Teaching Assistant | Fall 2018

Persian Gulf University, Bushehr, Iran

Course: Operating Systems

Supervisor: Dr. Maryam Ashkpour

Teaching Assistant | Fall 2018

Persian Gulf University, Bushehr, Iran

Course: Artificial Intelligence

Supervisor: Dr. Maryam Ashkpour

WORK EXPERIENCE

Web Developer & SEO Specialist | 2016 – Present

Uranus Stone Company, Tehran, Iran

Description:

- Utilizing WordPress to create and maintain websites aligned with the company's goals
- Optimizing content and structure for search engines, driving organic traffic, and enhancing our online presence
- Facilitating weekly online sessions to evaluate our online position, fostering a dynamic environment for analyzing strengths and weaknesses, and ensuring ongoing improvement in our digital presence

Web Developer & SEO Specialist | 2020 – Present

Venus Stone Company, Isfahan, Iran

Description:

- Responsible for crafting and maintaining dynamic and visually appealing websites that align with the company's branding and goals
- Optimizing website content and structure to enhance search engine visibility, thereby driving organic traffic and improving online presence
- Working collaboratively with cross-functional teams to implement SEO best practices, conducting keyword research, and analyzing website performance metrics, ensuring the continuous enhancement of our digital presence and user experience

SELECTED COURSES

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|--------------------------|----------|-----------------------------------|----------|
| • Machine Learning | 16.76/20 | • Digital Image Processing | 18.5/20 |
| • Evolutionary Algorithm | 20/20 | • Database Implementation | 20/20 |
| • Data Mining | 17/20 | • Statistical Pattern Recognition | 17.55/20 |
| • NLP | 18.38/20 | | |

HONORS & ACHIEVEMENTS

- Ranked 3rd among more than 23 students of Artificial intelligence at the end of Master's, Shiraz University, Shiraz, Iran, 2023
- Ranked 95th among approximately 10,000 participants in the Iranian University Entrance Exam for Master's degree, Iran, 2020
- Ranked 3rd among more than 35 students of Software Engineering at the end of Bachelor's, Persian Gulf University, Bushehr, Iran, 2020

MEMBERSHIP

- Member of the "Scientific Association of Computer Engineering", Shiraz University, Shiraz, Iran, 2020 – 2023
- Member of the "Scientific Association of Computer Engineering", Persian Gulf University, Bushehr, Iran, 2015 – 2020

TEST SCORES

- **TOEFL iBT** is scheduled to be taken as soon as possible.

COMPUTER SKILLS

- **Programming Languages:** Python, C++, Java, C#, MATLAB, SQL
- **Applied Software:** Adobe Photoshop, Adobe Illustrator, Latex, Microsoft Office (Word, PowerPoint, Excel, OneNote)

PERSONAL INTERESTS

- TRX
- Zumba
- Solving Puzzles
- Digital Painting
- Reading Books
- Playing Video Games

REFERENCES

- **Dr. Sattar Hashemi – Professor** | s_hashemi@shirazu.ac.ir
Department of Engineering, Computer Science and Information Technology, Shiraz University, Shiraz, Iran
- **Dr. Zohreh Azimifar – Associate Professor** | azimifar@cse.shirazu.ac.ir
Department of Engineering, Computer Science and Information Technology, Shiraz University, Shiraz, Iran
- **Saeed Talatian Azad – Professor** | s.talatian@gmail.com
Department of Engineering, Computer Science and Information Technology, Shiraz University, Shiraz, Iran