

# FATEMEH SADAT MASOUMI

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## Education

2021-present	<b>M.Sc. of Computer Science</b> , Faculty of Mathematics and Computer Science, University of Allameh Tabataba'i, Tehran, Iran
Expected defense: Sep 2023	Thesis: "Utilizing a Hybrid Ensemble Learning Model Based on Decision Tree and Neural Network for Survival Classification in Breast Cancer" Supervisor: Prof. Hassan Rashidi <b>OGPA: 4 / 4 (19.52 / 20), Rank 1<sup>st</sup></b>
2019-2020	<b>Master of Business Administration - Open Course</b> , Faculty of Management, University of Tehran, Tehran, Iran. Course-based Master. <b>OGPA: 4/4 (19.61 / 20)</b>
2012-2017	<b>B.Sc. of Software Engineering</b> , Department of Computer Engineering, University of Eyvanekey, Semnan, Iran <b>OGPA: 3 / 4 (15.13 / 20)</b>
2009-2012	<b>Diploma of Mathematics and Physics</b> , Marzieh High School, Tehran, Iran <b>OGPA: 3.9 / 4 (17.92 out of 20), Rank 3rd</b>

## Publications

- Vazan, Milad, Fatemeh Sadat Masoumi, and Sepideh Saeedi Majd. "A Deep Convolutional Neural Networks Based Multi-Task Ensemble Model for Aspect and Polarity Classification in Persian Reviews." *arXiv preprint arXiv:2201.06313* (2022).
- Fatemeh Sadat Masoumi, and Mohammad Bahrani. "Utilizing DistilBert Transformer Model for Sentiment Classification of COVID-19's Persian Open-text Responses." *arXiv preprint arXiv:2212.08407* (2022).
- Milad Vazan, Fatemeh Sadat Masoumi, and Reza Rawassizadeh. "Augmenting Vision-based Physical Activity Classification with Rotation Matrix." (Under Review)
- Mohammad Hossein Zolfagharnasab; Mohammad Bahrani; Masood Hamed Saghayan; Fatemeh Sadat Masoumi. "Exploring A Novel Multi-Channel Structure to Improve Facial Expression Recognition on Occluded Samples Using Deep Convolutional Neural Network." (Submitted to Springer: Multimedia Tools and Applications journal, 11 August 2023)
- Zahedi, Esmaeil, Mohamad Saraee, Fatemeh Sadat Masoumi, and Mohsen Yazdinejad. "Regularized Contrastive Masked Autoencoder Model for Machinery Anomaly Detection Using Diffusion-Based Data Augmentation." *Algorithms* 16, no. 9 (2023): 431.
- Fatemeh Sadat Masoumi, Hassan Rashidi, Latifeh Pour Mohammad Bagher. "A Hybrid DT-NN-Based Ensemble Learning Model for Breast Cancer Survivability Status Classification." (Under peer review)

## Awards and Honors

- Announced as **the Best Teaching Assistance of 2023**, the University of Allameh Tabataba'i, Tehran, Iran. **May 2023**
- **Ranked 1<sup>st</sup>** among graduate students of computer science, Allameh Tabataba'i University, Tehran, Iran. **May 2023**
- Announced as **the Best Young Researcher** among master's degree students, Faculty of Mathematics and Computer Science, University of Allameh Tabataba'i, Tehran, Iran. **Dec 2022**

## Research Interest

- Machine Learning and Deep Learning
- Computer Vision (Image classification, Image detection)
- Natural Language Processing (Sentiment analysis, Classification, LLMs)

## University Courses

Machine Learning: 20/20  
Computational data Mining: 20/20  
Advanced Algorithm: 19.75/20  
Artificial Neural Networks: 20/20

Advanced Database: 18.75/20  
Advanced Software Design: 19/20  
Decision Support System: 19.5/20  
Game Theory: 19.5/20

## Language Proficiency

- English (**IELTS ACADEMIC** Module overall: **8** (L: 8.5, R: 8.5, W:6.5, S: 7.5))
- Persian (Native proficiency)

## Key skills

Python	MySQL	SQL	C++	Git\Github
Numpy	Pandas	Scikit-learn	Matplotlib	HuggingFace
OverLeaf	VisualStudio	System Design	Team Leading	Technical Documentation

## Teaching Experiences

Sep 2022 - Jan 2023	<b>Teaching Assistant</b> , Artificial Intelligence, Faculty of Mathematics and Computer Science, University of Allameh Tabatabai, Tehran, Iran Under the supervision of Professor Latifeh Pour Mohammad Bagher
Sep 2022 - Jan 2023	<b>Teaching Assistant</b> , Professional English for Computer Engineering, Faculty of Mathematics and Computer Science, University of Allameh Tabatabai, Tehran, Iran Under the supervision of Professor Hosein Teimoori Faal
Feb 2022 - Jun 2022	<b>Teaching Assistant</b> , Data Structures and Algorithms, Faculty of Mathematics and Computer Science, University of Allameh Tabatabai, Tehran, Iran Under the supervision of Professor Hassan Rashidi

## Related Work Experience

Sep 2022 - Sep2023	Scientific Association of Computer Science, Allameh Tabataba'i University, Tehran, Iran <b>Chairman of the Board</b>
Mar 2023 - Jul 2023	FaraAI, Tehran, Iran <b>Computer Vision Intern</b>

## Conferences and Seminars Attended

April 2023	<b>8<sup>th</sup> Winter Seminar Series (WSS)</b> In Advance Topics of Computer Science and Engineering, <b>Sharif University of Technology, Tehran, Iran.</b>
Aug 2022	<b>2<sup>nd</sup> Computer Webinar Series (CWS) 2022-</b> Amirkabir University of Technology, Tehran, Iran.
Jul 2022	<b>Seminar of Summer School of Data Science and Applications in FinTech &amp; Industry-</b> 30 hours online sessions, 4-22 Jul 2022, UiTM, Malaysia and University of Allameh Tabataba'i, Tehran, Iran.
Feb 2022	<b>7<sup>th</sup> Winter Seminar Series (WSS)</b> In Advance Topics of Computer Science and Engineering, <b>Sharif University of Technology, Tehran, Iran.</b>
Jan 2022	<b>Computer Webinar Series (CWS) 2022-</b> Amir Kabir University of Technology, Tehran, Iran.