

FATEMEH SADAT MASOUMI

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Education

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

Publications

- Milad Vazan, 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, Ruizhi Ou, and Reza Rawassizadeh. "Augmenting Vision-based Physical Activity Classification with Rotation Matrix." *arXiv preprint arXiv: 2310.06068* (2023).
- Esmail Zahedi, Mohamad Saraee, Fatemeh Sadat Masoumi, and Mohsen Yazdinejad. "Regularized Contrastive Masked Autoencoder Model for Machinery Anomaly Detection Using Diffusion-Based Data Augmentation." MDPI: Algorithms 16, no. 9 (2023): 431.
- 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/ we are waiting for the journal's decision)

Awards and Honors

- Announced as **the Best Teaching Assistance of 2023**, the University of Allameh Tabataba'i, Tehran, Iran. **May 2023**
- **Ranked 1st** 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

- Natural Language Processing (, LLMs, Sentiment analysis, Gender discrimination)
- Computer Vision (Image classification, Image detection in health applications)
- Machine Learning and Deep Learning (Health applications)

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	Hugging Face
OverLeaf	VisualStudio	System Design	Team Leading	Technical Documentation

Teaching Experiences

- Sep 2022 - Jan 2023 **Teaching Assistant**, 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 **Teaching Assistant**, 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 **Teaching Assistant**, Data Structures and Algorithms, Faculty of Mathematics and Computer Science, University of Allameh Tabatabai, Tehran, Iran
Under the supervision of Professor Hassan Rashidi

Other Work Experience

- Jul 2019 - Aug 2023 Farasat Electric Equipment Supplier, Tehran, Iran
Project Manager
- Sep 2017 - Mar 2019 Parsian Pharmaceutical Company, Karaj, Iran
Information Technology Admin

Conferences and Seminars Attended

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

Hobbies

Swimming, Running, Playing Squash, Reading, Painting.