

Sadegh Jafari

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RESEARCH INTERESTS NLP, Social Media Analysing, Special-Purpose Chatbots, Empathetic multimodal conversational agents.

EDUCATION **Ghent University** Feb 2025 - Current
PhD. in Linguistics *Advised by Prof. Veronique Hoste, Prof. Els Lefever, Prof. Tony Belpaeme*
GPA: –
Project: An investigation into more empathic conversational AI.

Iran University of Science & Technology Sep 2022 - Sep 2024
M.Sc. in Computer Science. *Advised by Prof. Sauleh Eetemadi*
GPA: **3.77**
Project: Psychological Health Chatbot using LLM.

Iran University of Science & Technology Sep 2018 - Aug 2022
B.Sc. in Computer Science. *Advised by Prof. Saeed Parsa*
GPA: **3.76**
Project: Increasing the testability of the program by applying automatic refactoring to the program code.

HONORS

- I placed **5th** in the LLM Hackathon competition, which was the first LLM competition in Iran, competing against nearly 1000 participants.
- IUST Computer Engineering class of **top 10%**.
- **Top 0.4%** in the national university entrance exam, Math and Physics Discipline.
- Paper reviewer for the ECAI 2024 conference.

PUBLICATIONS PUBLISHED

H Amirzadeh, **S, Jafari**, A Harju, R van der Goot. 2024. *data2lang2vec: Data Driven Typological Features Completion*. COLING Conference.

S, Jafari, F Farsi, N Ebrahimi, M Sajadi, S Eetemadi. 2024. *DadmaTools V2: an Adapter-Based Natural Language Processing Toolkit for the Persian Language*. COLING Conference (AbjadNLP).

S, Jafari, E Zare, A Vishte, M Mirzae, Z Amiri, S Mohammadparast, S Eetemadi. 2024. *Psychological Health Chatbot, Detecting and Assisting Patients in their Path to Recovery*. COLING Conference (AbjadNLP).

S, Jafari, M Farsouni Nezhad, M Nobakhtian, A Chaichi Mellatshahi and A Kaze-meini. 2024. *A Silent Voice: A Bilingual Longitudinal Analysis of Mahsa Amini's Movement Tweet?*. IEEE ICDM Conference (SENTIRE workshop).

S, Jafari, M Mahmoodzadeh, V Nazari, R Bahmanyar, K Burrows. 2024. *DRAGON at FIGNEWS 2024 Shared Task: a Dedicated RAG for October 7th conflict News*. [The Second Arabic Natural Language Processing Conference](#)(Co-located with ACL 2024).

M Zakeri, S Parsa, **S, Jafari**. 2024. *Measuring and improving software testability at design level*. [IST: Information and Software Technology journal](#)

S, Jafari, A Fathi, A Hajizadegan, A Kazemeini, S Eetemadi. 2023. *A longitudinal study about gradual changes in the Iranian Online Public Sphere pre and post of "Mahsa Moment": Focusing on Twitter*. [EMNLP Conference\(LChange23 workshop\)](#).

RESEARCH
EXPERIENCE

NLPnorth Lab, Computer Science department of the IT University of Copenhagen Apr 2023 - Aug 2024

Research Assistant under the supervision of [Prof. Rob van der Goot](#)

- We are working on a project to improve [Lang2Vec](#), aiming to find an embedding for each language to enhance NLP models for low-resource languages. My role in the team is to identify the best model for missing values detection and perform feature selection for this task.

NLP Lab, Dept. of Computer Engineering, IUST Sep 2022 - Sep 2024

Research Assistant under the supervision of [Prof. Sauleh Eetemadi](#)

- I am a mentor of a group consisting of 5 bachelor's students. Our goal is to design a chatbot that can detect individuals in need of support from social media based on their posts and assist them on their path to recovery.

Data Mining Lab, IUST Dec 2021 - Nov 2022

Research Assistant under the supervision of [Prof. Behrouz Minaei Bidgoli](#)

- Creating a Persian Named Entity Recognition (NER) dataset.
- Try to build an entity linker to link entities to Wikipedia pages.

PROFESSIONAL
EXPERIENCE

Dadmotech Company Sep 2023 - Jan 2025

Project Manager and NLP Research Assistant

- I am working on [Dadmatools](#), an open-source project for Natural Language Processing resources for the Persian language. Currently, I am utilizing the adapter method to build a pipeline for various NLP tasks.
- Working on various NLP projects required by other companies.

NetboxOfficial Company Aug 2022 - Sep 2023

Python Developer

- Crawling film and music information from other websites.
- Write some Django APIs to retrieve music and film information from the database.
- Building a movie recommender system.
- Working on user behavior analysis to predict the time users spend on our application.

TahaTech Company Jun 2021 - Mar 2022

Oracle Database Developer

- Designing a database to manage resources for some companies.

TEACHING EXPERIENCE	Natural Language Processing, Prof. Sauleh Eetemadi Deep Learning, Prof. Marzieh Davoodabadi Database Design, Prof. Hossein Rahmani Data Structures, Prof. Hossein Rahmani Compiler Design, Prof. Saeed Parsa Computer Architecture, Prof. Mohsen Soryani Fundamentals of Computer Programming, Prof. Vahid Azhari	Fa 2023, Sp 2022 Fa 2022 Sp 2022, Sp 2021, Fa 2020 Fa 2023, Fa 2021 Sp 2022, Fa 2021 Fa 2021, Sp 2021, Fa 2020 Sp 2022
SKILLS	<p>Python Over 50 assignments for Computational Intelligence, CV and working as a NLP research assistant. $\approx 60k$ LOC</p> <p>Keras 10 assignments and a project for NLP, Deep Learning, and Neural Networks courses. $\approx 2k$ LOC</p> <p>PyTorch 15 assignments and a project for NLP, Deep Learning, and Neural Networks courses. $\approx 20k$ LOC</p> <p>GIT Used for assignments and projects for 7 semesters. $\approx 2.5k$ Commits</p>	
EXTRA ACTIVITIES	Elected member of IUST CE Scientific Association (CESA). Managing a YouTube channel named NLPaper where I discuss interesting papers in the field of Natural Language Processing that I have read.	May 2023 - May 2024 June 2023 - Current
REFERENCES	<p>Dr. Veronique Hoste, Research director at LT3, Ghent University, +3293311941, veronique.hoste@ugent.be</p> <p>Dr. Els Lefever, Academic staff at LT3, Ghent University, +3293311936, els.lefever@ugent.be</p> <p>Dr. Sauleh Eetemadi, Assistant Professor of Computer Science, Iran University of Science & Technology, +9873225342, sauleh@iust.ac.ir</p> <p>Dr. Rob van der Goot, Assistant Professor of Computer Science, IT-University of Copenhagen, robv@itu.dk</p> <p>Dr. Behrouz Minaei Bidgoli, Professor of Computer Science, Iran University of Science & Technology, +9873225330, b_minaei@iust.ac.ir</p> <p>Dr. Saeed Parsa, Associate Professor of Computer Science, Iran University of Science & Technology, +9873225314, parsa@iust.ac.ir</p>	