

Mohammad Roustaei

ARTIFICIAL INTELLIGENCE · LARGE LANGUAGE MODELS · NLP
DEEP LEARNING · SOCIAL MEDIA INTELLIGENCE

🏠 mrmaper.github.io ✉ m.roustaei@ihu.ac.ir

☎ +98 910 057 4510 in [mohammad-roustaei](#) 📄 [Google Scholar](#)

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EDUCATION

Oct. 2021 – Sep. 2024	M.Sc. in Computer Engineering – Artificial Intelligence Thesis title: “A Method for Generating Persian Text on Social Media Using Language Models” Advisors: Dr. Mohammadreza Hassani Ahangar (Full Professor), Arash Ghafoori Thesis Grade: <i>Excellent</i> GPA: 17.68 Admitted through Exceptional Talent quota (without entrance exam)	IMAM HOSSEIN UNIVERSITY, TEHRAN, IRAN
Sep. 2017 – Jul. 2021	B.Sc. in Computer Engineering Graduated top of class among 70 students Final Project: “Diagnosis of COVID-19 disease in X-ray images” Supervisor: Dr. Davar Giveki Project Grade: <i>Excellent</i> – 20 / 20 GPA: 18.81	MALAYER UNIVERSITY, MALAYER, IRAN

PUBLICATIONS

Authors with a * are corresponding authors.

JOURNAL ARTICLES

1. **Mohammad Roustaei***, Davar Giveki*.
Diagnosis of COVID-19 Disease in X-ray Images Based on Deep Learning Methods and Combining Classifiers.
Journal of Health and Biomedical Informatics, Vol. 2, Sep 2023. [\[Full Text\]](#)
2. **Mohammad Roustaei***, Meysam Mirzaei.
Improving Visual Sentiment Analysis in Social Networks Using Transfer Learning Models.
Journal of Applied and Basic Machine Intelligence Research, Vol. 2, Nov 2023. [\[Full Text\]](#)
3. **Mohammad Roustaei***, Mohsen Norouzi.
Analysis of Transfer Learning Methods in Optimizing Apple Tree Disease Detection.
Journal of Agricultural Information Sciences and Technology, Vol. 1, Apr 2024. [\[Full Text\]](#)
4. **Mohammad Roustaei***, Mohammadreza Hassani Ahangar.
Detecting Fake News in Social Media Based on Semantic Relationships and Classification Combinations.
Journal of New Achievements in Electrical, Computer and Technology, Vol. 1, Mar 2022. [\[Full Text\]](#)

CONFERENCE PUBLICATIONS

1. **Mohammad Roustaei***, Mohammadreza Hassani Ahangar, Arash Ghafoori.
Stance Detection in Persian Social Media Using a Deep Learning Approach.
International Conference on Artificial Intelligence and Future Civilization, Tehran, Jan 25, 2025. [\[View Paper\]](#)
2. **Mohammad Roustaei***, Mohammadali Javadzadeh.
Sentiment Analysis of Users in Persian Based on the Combination of Semantic Relationships and Random Forest.
8th National Conference on New Research in Computer, Electrical and Mechanical Engineering of Iran, Tehran, Feb 14, 2023. [\[View Paper\]](#)
3. **Mohammad Roustaei***, Mohammadali Javadzadeh.
To Provide A Movie Recommender System Based On A Clustering Operation By The Whale Algorithm
14th International Conference on Information Technology, Computer and Telecommunications, Tbilisi, Georgia, Feb 18, 2022. [\[View Paper\]](#)

PATENTS

Title: Solar Thermometric Device for Wireless Monitoring of Subsurface Soil Temperature
Registration Authority: Iranian Intellectual Property Center, Judiciary
Date Registered: Feb 17, 2025
[\[View Patent\]](#)

RESEARCH EXPERIENCE

Feb. 2018 – Present	Malayer University, Malayer	RESEARCH ASSISTANT (SUPERVISED BY DR. D. GIVEKI)
- Acted as teaching assistant for introductory programming courses during undergraduate studies. - Contributed to multiple research projects in image processing and deep learning. - Coordinated data collection and team management for a Iranian plate recognition dataset. - Participated in building a remote sensing image captioning (RSIC) dataset; publication in preparation. - Involved in a flood prediction research project; co-author on the draft under revision. <i>This long-term academic collaboration is ongoing...</i>		
May 2024 – Present	Imam Hossein University, Tehran	HEAD OF STUDENT RESEARCH COMMITTEE – LANGUAGE MODELS
- Supervised and coached graduate students working on M.Sc. theses related to large language models. - Actively collaborated with thesis advisors to guide three students through proposal writing and research design. - Contributed to the approval of two M.Sc. proposals and mentored another ongoing thesis in progress. - Assisted faculty members with thesis evaluations and defense preparation as part of the lab's research committee.		

TEACHING EXPERIENCE

Feb. 2026 – Present	Mazandaran University of Science and Technology	LECTURER
Professional Soft Skills: Instructing 30 students based on J. Sonmez's framework, focusing on career development and team collaboration tools. General Computer Workshop: Teaching practical computing and hardware basics to 15 students.		

EXPERIENCE

Aug. 2024 – Present	Innovation Center for Cognitive Sciences and Technologies, IUST (Tehran)	PROJECT MANAGER
- Managed AI research projects focused on large language models (LLMs) and advanced NLP systems. - Supervised the development and evaluation of a Persian LLM-based chatbot for social media. - Led interdisciplinary teams (AI, DevOps, UI/UX) to build data-driven content generation systems. - Designed evaluation metrics and conducted benchmarking for LLMs in text generation tasks. - Documented project phases, research findings and technical reports for publication and knowledge transfer.		
Mar. 2022 – Aug. 2024	Innovation Center for Cognitive Sciences and Technologies, IUST (Tehran)	AI DEVELOPER
- Developed and fine-tuned deep learning models (LLMs) for Persian text generation and analysis. - Applied NLP algorithms for sentiment analysis, text classification, and speech-to-text tasks. - Built and evaluated intelligent chatbot and NLP systems for social media applications. - Conducted research on novel architectures and benchmarking methods for Persian NLP. - Evaluated LLMs using human and automated metrics for accuracy, quality, and reliability.		
Nov. 2021 – May. 2022	Marine Research Center, Imam Hossein University, Tehran	AI RESEARCHER
- Conducted research on navigation and control of Autonomous Underwater Vehicle (AUV). - Developed deep learning models (LSTM, RNN) to minimize INS-based navigation errors. - Integrated neural network-based corrections into the INS module for improved localization accuracy. - Prepared scientific and technical reports for the project (confidential, not publicly available).		

HONORS

2017–2021	1st Rank among 70+ B.Sc. students	MALAYER UNIVERSITY
2021	Exempted from M.Sc. entrance exam	TALENT QUOTA ADMISSION
2026	Certified Professional Member (Member ID: 21033453)	IRANIAN ICT GUILD ORGANIZATION (NSR)

SKILLS

Programming & Frameworks: Python (PyTorch, Scikit-learn, NLTK, spaCy, Transformers), MATLAB (Deep Learning Toolboxes, GUI design).

Machine Learning & AI: Large Language Models (LLM), Natural Language Understanding, Natural Language Generation, Object Detection Models, Data Mining, Cognitive Science.

Research & Writing: LaTeX, Mendeley.

Version Control & DevOps: Git / GitHub, Docker.

Project Management: Jira (Atlassian Suite), Trello.

Tools & Software: OpenCV, MS SQL Server, Adobe Photoshop, Gephi.

Hardware & Embedded Systems: Raspberry Pi, AVR Microcontrollers, Proteus & CodeVision, 3D Printing.

LANGUAGE PROFICIENCY

- **Persian:** Native
- **English:** Good reading and listening; fair writing; basic speaking. (*MSRT Score: 58*)