MARZIA NOURI

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RESEARCH INTERESTS

● NLP   ● LLMs   ● Interpretability   ● Responsible AI   ● Low-Resource NLP   ● Multimodal Learning

EDUCATION

Bachelor of Science in Computer Engineering   *Sep 2017 - Feb 2022*
Department of Electrical and Computer Engineering, Isfahan University of Technology, Isfahan, Iran
GPA: 16.34/20, 17.62/20 over the last two years
Thesis: Question Answering System Using Machine Learning, GitHub Link
Supervisor: Dr. Mehran Safayani

PUBLICATIONS

● Yu X., Dalvi F., Durrani N., **Nouri M.**, and Sajjad H., *Latent Concept-based Explanation of NLP Models.* **Accepted** at EMNLP 2024. View Paper

● Ghahroodi O., **Nouri M.*** Vali Sanian M.*, Sahebi A.*, Dastgheib D., Asgari E., Soleymani M., and Rohban M., *Khayyam Challenge (PersianMMLU): Is Your LLM Truly Wise to The Persian Language?* **In Proceedings of** COLM 2024. View Paper

● **Nouri M.***, Amani M.*, Zohrabi R., and Asgari E. *The Language Model, Resources, and Computational Pipelines for the Under-Resourced Iranian Azerbaijani.* **In Proceedings of** AACL 2023 (Asia-Pacific ACL), View Paper

● Bahmani Z.*, Mirbeygi M.*, Hashemi N.*, **Nouri M.***, Amani M.*, Asgari E., Soleymani Baghshah M., Beigy H., and Movaghar A., *Linguistic Resources and Transformer-based Models for the Machine Translations between Luri and Yazdi Dialects versus Standard Persian.* **In Proceedings of** Language and Linguistics (Journal of the Linguistics Society of Iran). View Paper
***denotes equal contribution**

RESEARCH EXPERIENCE

Research Assistant   *Aug 2024 - Present*
Qatar Computing Research Institute (QCRI), Doha, Qatar
Supervisor: Dr. Ehsaneddin Asgari
Organizing and structuring data in a logical framework to enhance model comprehension and performance, facilitating better contextual understanding and more efficient training for LLMs.

Research Assistant   *May 2024 - Present*
HyperMatrix Lab, Dalhousie University, Halifax, Canada
Supervisor: Dr. Hassan Sajjad
Working on the interpretability and safety of NLP models, with ongoing research and one publication to date.

Research Assistant   *Apr 2023 - Present*
Raia Center, Sharif University of Technology, Tehran, Iran
Supervisors: Dr. Mohammad Hossein Rohban, Dr. Mahdieh Soleymani, Dr. Ehsaneddin Asgari
Evaluating LLMs with a focus on their support for Persian, reasoning, knowledge, fairness, and RAG systems, with one publication to date.

Research Assistant   *Jun 2022 - Oct 2023*
Language Processing and Digital Humanities Lab, Sharif University of Technology, Tehran, Iran
Supervisor: Dr. Ehsaneddin Asgari
Developed NLP tools for Iranian languages, leading to two publications on modeling, translation, and classification.

TEACHING EXPERIENCE

Teaching Assistant *Sep 2022 - Dec 2023*
Sharif University of Technology, Tehran, Iran
Course: Natural Language Processing
Designed course projects and exercises, providing student support, and assisting with grading and evaluation for graduate level NLP course for three consecutive semesters.

English Teacher *Oct 2023 - Aug 2024*
Iran-Europe English Language Institute, Tehran, Iran
Instructed students in English language classes, including grammar, vocabulary, reading comprehension, listening, and pronunciation.

WORK EXPERIENCE

Data Scientist *Jul 2024 - Present*
TapSage, London, United Kingdom
Developing and implementing generative AI solutions, with a focus on conversational AI and RAG systems.

SKILLS

Languages:	Azerbaijani, Persian: Native
	English: IELTS: 8 (L: 8.5, R: 8.5, W: 7.5, S: 7.5),
	Turkish: Intermediate
Programming Languages:	Python, C, C++, T-SQL, R, Matlab, Node.js, PHP
Machine Learning and NLP Libraries:	PyTorch, scikit-learn, NumPy, Pandas, spaCy, NLTK, Hugging Face
Database Management:	SQL (MS SQL, SQLite), NoSQL (MongoDB)
Development and Technical Tools:	Colab, Flask, Qt, Express.js, Git, LaTeX
Operating Systems:	Windows, Linux, macOS

CERTIFICATIONS

Generative AI with Large Language Models *Nov 2023*
Coursera, DeepLearning.AI, Certification Link
IELTS Teacher Training Course (TTC) *Oct 2023 - Nov 2023*
Shahid Beheshti University, Tehran, Iran, Certification Link
Ask Questions to Make Data-Driven Decisions *Mar 2023 - Apr 2023*
Coursera, Google Career Certificates, Certification Link
Foundations: Data, Data, Everywhere *Feb 2023*
Coursera, Google Career Certificates, Certification Link

REFERENCES

Dr. Ehsaneddin Asgari
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Dr. Hassan Sajjad
Associate Professor
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Dr. Mehran Safayani
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