

Amir Sartipi

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🎓 Amir Sartipi

Education

University of Isfahan

MSc in Software Engineering

Isfahan, Iran

Sept 2020 - Sept 2023

- **GPA:** 18.94/20
- **Thesis:** 'Multilingual Complex Named Entity Recognition'
- Participated in SemEval 2022 and 2023
- Ranked 1st out of 15 students

University of Isfahan

BSc in Software Engineering

Isfahan, Iran

Sept 2016 - Aug 2020

- **GPA:** 15.54/20
- **Thesis:** 'Design and implementation of news monitoring system'
- Ranked 14th out of 120 students

Research Interests

Natural Language Processing
Data Mining

Deep Learning
Graph Neural Network

Machine Learning
Artificial Intelligence

Publication and Project

Publication

University of Isfahan

Isfahan, Iran

Sept 2021 - Current

- **Amir Sartipi**, Amirreza Sedighin, Afsaneh Fatemi, and Hamidreza Baradaran Kashani. 2023. Sartipisedighin at semeval-2023 task 2: Fine-grained named entity recognition with pre-trained contextual language models and data augmentation from wikipedia. In *Proceedings of the 17th International Workshop on Semantic Evaluation*, pages 565–579, Toronto, Canada. Association for Computational Linguistics.
- **A. Sartipi** and A. Fatemi, "Exploring the Potential of Machine Translation for Generating Named Entity Datasets: A Case Study between Persian and English," *2023 9th International Conference on Web Research (ICWR)*, Tehran, Iran, Islamic Republic of, 2023, pp. 368-372, doi: 10.1109/ICWR57742.2023.10139222.
- Safayani, M., **Sartipi, A.**, Ahmadi, A. H., Jalali, P., Mansouri, A. H., Bisheh-Niasar, M., & Pourbahman, Z. (2023). OPSD: an Offensive Persian Social media Dataset and its baseline evaluations. Manuscript submitted for publication to *information retrieval journal* (**Under review**)
- **Sartipi, A.**, Dehghan, M., & Fatemi, A. (2023). An Evaluation of Persian-English Machine Translation Datasets with Transformers. Manuscript submitted for publication to *Transactions on Asian and Low-Resource Language Information Processing* (**Under review**)

Work Experience

Neuroship

NLP Engineer

Netherlands (Remote)

May 2023 - Current

- Designed and developed an Enterprise Coding Assistant.
- Collaborated on projects involving Large Language Models.
- Implemented a summarization system for git repositories using Large Language Models (LLMs).
- Utilized open source LLMs, OpenAI, and VertexAI, to enhance project capabilities.
- Facilitated semantic interaction between vector databases and Large Language Models.
- Deployed Large Language Models on Google Cloud Platform (GCP).
- Developed diverse agents to work towards common goals.
- Gained experience working with helm charts, Kubernetes (k8s), and k9s.
- Created FastAPI applications to interact with agents.

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NLP Engineer

Remote

Aug 2022 - Current

- Implemented a paraphrase generation system using generative models.
- Developed a grammar error detection application using transformers.
- Implemented a punctuation suggestion system.
- Built a grammar error correction system using a combination of ElasticSearch and transformer fill-mask techniques.
- Implemented automatic parallelization for unaligned data.
- Deploying language models in production.
- Processed massive amounts of data using Spark.

University of Isfahan
Teaching Assistance

- **Courses:** Data Mining (3x), Computer Programming, Database Design (2x), Analysis and Design of Big Data Systems, Advanced Database Design
- Regularly assisted in tutoring, project and assignment preparation, and assessment

Isfahan, Iran
Sept 2020 - Aug 2022

Isfahan University of Technology
NLP Researcher and Developer

- Collaborated with a team of four to develop a model for detecting offensive comments.
- Fine-tuned state-of-the-art language models such as BERT, DeBERTa, mT5, and attention-based models for the task.
- Crawled data, labeled comments, and created datasets for detecting offensive comments.
- Applied NLP techniques such as data augmentation and active learning to improve the model's robustness.
- Deployed the models as an API.

Isfahan, Iran
Apr 2020 - Sept 2020

Isfahan University of Technology
Full-stack Web Developer

- Developed REST APIs and encapsulated all features as services.
- Developed a user interface and improved the user experience.
- Monitored the APIs using frameworks such as Elastic and Kibana.
- Handled HTTP requests using Kubernetes.

Isfahan, Iran
Jun 2020 - Mar 2021

Freelance Projects
Full-stack Web Developer

- **Plasco:** Developed APIs for managing industrial workshops.
- **Bringo:** Designed and developed a web application for integrating online pharmacies.
- **Cubeh:** Designed and developed a web application for receiving customer orders to purchase products.
- **Rayo:** Developed an online reservation system for clinic patients.
- **Rayo:** Designed and developed a mentoring project.

Isfahan and Tehran, Iran
May 2018 - May 2020

Skills

NLP	Prompt engineering, LangChain, LLMs, Complex reasoning in NLP, Chain of Thought, Gradio, Transformers
Artificial Intelligence	Python (Pandas, PyTorch (Geometric, Lightning), NumPy, Tensorflow, Keras, scikit-learn, pyspark, Apache Spark, wandb)
Web Development	Django Rest Framework, Django, Angular, Angular Material, Angular JS, jQuery, Bootstrap, Materialize
IDE	Visual Studio Code, PyCharm, Spyder, Google Colab
Miscellaneous	Linux, 𐭠𐭣𐭥𐭩(Overleaf/), Git, Docker, Elasticsearch, Kibana, k9s.
Soft Skills	Time Management, Teamwork, Problem-solving
Interests	Applied AI, Natural Language Processing, Deep Learning, Machine Learning, Data Scientist, Graph Neural Network

Achievements

2023	Contributor , amazon/MistralLite model, huggingface repository	Online
2022	8th out of 647 teams , Data Science Cup 2022	Amirkabir University Technology, Iran
2021	Lecturer for the University of Isfahan , Annual Research Week (Graph Machine Learning)	Iran
2021	1st out of 72 teams , Nation contest in artificial intelligence	Isfahan University of Technology, Iran
2020	Tuition Waived for M.Sc degree , Iranian University Entrance Exam, the top 4% among more than 15000 participants.	Iran
2016	Tuition Waived for B.Sc degree , Iranian University Entrance Exam, the top 3% among more than 160000 participants.	Iran

Languages

English	IELTS (Estimated exam date: 2023-11-18)
Persian	Native proficiency
Dutch	Elementary proficiency

Certificate

Offered by DeepLearning.AI, Coursera

Stanford University

Stanford University

Offered by Google, Coursera

Udemy

Udemy

Build Basic Generative Adversarial Networks

CS224W: Machine Learning with Graphs

Stanford CS224N: NLP with Deep Learning

Foundations: Data, Data, Everywhere

TensorFlow Developer Certificate in 2021 Zero to Mastery

Machine Learning A-Z™ Hands-On Python and R in Data Science

References

Dr. Mohammad Ali Nematbakhsh

University of Isfahan

Professor, Dept of Software Engineering

- Email : nematbakhsh@eng.ui.ac.ir
- URL: <https://bigdata.ui.ac.ir/faculty-members/mohammad-ali-nematbakhsh/>
- Scholar: <https://scholar.google.com/citations?user=Z4QLt3IAAAAJ&hl=en&oi=ao>

Dr. Afsaneh Fatemi Khorasgani

University of Isfahan

Associate Professor, Dept of Software Engineering

- Email: a_fatemi@eng.ui.ac.ir
- URL: <https://bigdata.ui.ac.ir/faculty-members/afsaneh-fatemi/>
- Scholar: <https://scholar.google.com/citations?user=3-tmjrAAAAAJ&hl=en/>

Dr. Reza Ramezani

University of Isfahan

Assistant Professor, Dept of Software Engineering

- Email: r.ramezani@eng.ui.ac.ir
- URL: <https://bigdata.ui.ac.ir/faculty-members/reza-ramezani/>
- Scholar: <https://scholar.google.com/citations?user=QDa3wGgAAAAAJ&hl=en>