Amir Sartipi

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Education

University of Luxembourg, SnT

Kirchberg, Luxembourg

PhD in Computer Science

· Thesis: TBD

July 2024 - Current

University of Isfahan

Isfahan, Iran

MSc in Software Engineering

Sept 2020 - Sept 2023

• Thesis: 'Multilingual Complex Named Entity Recognition'

Isfahan, Iran

University of Isfahan BSc in Software Engineering

Sept 2016 - Aug 2020

• Thesis: 'Design and implementation of news monitoring system'

Publication

- Amir Sartipi, Amirreza Sedighin, Afsaneh Fatemi, and Hamidreza Baradaran Kashani. 2023. Sartipisedighin at semeval-2023 task 2: Finegrained 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.
- Sartipi, A., Dehghan, M., & Fatemi, A. (2023). An Evaluation of Persian-English Machine Translation Datasets with Transformers.

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 **Soft Skills**

Linux, ETFX (Overleaf/), Git, Docker, Elasticsearch, Kibana, k9s. Time Management, Teamwork, Problem-solving

Interests

Applied AI, Natural Language Processing, Deep Learning, Machine Learning, Data Scientist, Large Language Models

Work Experience

Neuroship Netherlands (Remote) **NLP Engineer** May 2023 - Feb 2024

- 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 Aug 2022 - Mar 2024

- 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.

JULY 11, 2024

University of Isfahan Isfahan Isfahan

Teaching Assistance Sept 2020 - Aug 2022

· Regularly assisted in tutoring, project and assignment preparation, and assessment

Isfahan University of Technology

Isfahan, Iran

Apr 2020 - Sept 2020

NLP Researcher and DeveloperCollaborated 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 University of Technology

Isfahan, Iran

Jun 2020 - Mar 2021

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.

Freelance Projects Isfahan and Tehran, Iran

Full-stack Web Developer

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May 2018 - May 2020

- Tall 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.

Achievements _____

2023	Lecturer for the University of Isfahan , Annual Research Week Talk about Complex Few-shot Reasoning with LLMs	Iran
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

Certificate

Offered by DeepLearning.Al, Coursera Build Basic Generative Adversarial Networks

Stanford University CS224W: Machine Learning with Graphs
Stanford University Stanford CS224N: NLP with Deep Learning
Offered by Google, Coursera Foundations: Data, Data, Everywhere

Udemy TensorFlow Developer Certificate in 2021 Zero to Mastery **Udemy** Machine Learning A-Z[™] Hands-On Python and R in Data Science

References available upon request.

July 11, 2024