

Amir Sartipi

Isfahan, Iran

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[linkedin.com/in/amir-sartipi-b0659b17a/](https://www.linkedin.com/in/amir-sartipi-b0659b17a/) | 🏠 Amir Sartipi

Education

University of Isfahan

MSc in Software Engineering

Isfahan, Iran

Sept 2020 - Current

- **GPA:** 18.94/20
- **Thesis:** 'Multilingual Complex Named Entity Recognition'
- Participated in SemEval 2022 and 2023
- Ranked 1st out of 60 students
- Near completion

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 - Aug 2022

- An Evaluation of Persian-English Machine Translation Datasets with Transformers **In review - Link to pre-print**
- Exploring the Potential of Machine Translation for Generating Named Entity Datasets: A Case Study between Persian and English **In review - Link to pre-print**
- Sartipi-Sedighin at SemEval-2023 Task 2: Fine-grained Named Entity Recognition with Pre-trained Contextual Language Models and Data Augmentation from Wikipedia **In review -**
- OPSD: an Offensive Persian Social media Dataset and its baseline evaluations (**In preparation**)

Projects

University of Isfahan

Isfahan, Iran

Sept 2016 - Aug 2022

- Design and develop a real-time system for instant analysis of Persian Twitter text data by Stanza, Spark, Flask, Redis, Elastic, Kibana, Kafka.
- Aspect-Based-Sentiment-Analysis by applying CNN and LSTM with word embeddings such as word2vec, GloVe and fastText
- Aspect-Based-Sentiment-Analysis by mBERT, XLM-R, ParsBERT language models
- Multi-class classification by applying DT, SVM, RFC, GNB, MLP, KNN algorithms, feature engineering, and using active learning to handle missing values and hyperparameters tuning
- Clustering and classification of the Uber and Titanic datasets by PySpark library
- Developing an information retrieval system on the WIKIBOOKS dataset
- Developing an intelligent agent to achieve maximum profit in a competitive environment
- Implementing the Eclat, Apriori.

Work Experience

Vira Virast

NLP Engineer

Shiraz, Iran (remote)

Aug 2022 - Current

- Developing grammar error detection application with transformers
- Build grammar error correction with a combination of elastic search and transformer fill-mask
- Automatic parallelization for unaligned data
- Processing huge amount of data with Spark

University of Isfahan

Teaching Assistance

Isfahan, Iran

Sept 2020 - Aug 2022

- **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 University of Technology

NLP Researcher and Developer

Isfahan, Iran

Apr 2020 - Sept 2020

- Collaborated with a four-person team to develop a model that detects offensive comments.
- Finetuning the SOTA language model such as BERT, DeBERTa, mT5 and attention-based models
- Crawling data, labeling, and creating datasets for detecting offensive comments
- Applying NLP techniques like data augmentation and active learning to make the model more robust
- Deploying models as an API

Isfahan University of Technology

Full-stack Web Developer

Isfahan, Iran

Jun 2020 - Mar 2021

- Developing REST APIs and representing all features as a service
- Developing user interface and improving user experience
- Monitoring APIs by frameworks like Elastic and Kibana
- Handling HTTP requests by Kubernetes

Freelance Projects

Full-stack Web Developer

Isfahan and Tehran, Iran

May 2018 - May 2020

- **Plasco:** Developing APIs for managing industrial workshops
- **Bringo:** A Web App to integrate online pharmacies
- **Cubeh:** A Web App to get orders for buying products from customers
- **Rayo:** Online turn reservation for clinic patience
- **Rayo:** Designed and developed for mentoring projects

Skills

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, \LaTeX (Overleaf/), Git, Docker, Elasticsearch, Kibana.
Soft Skills	Time Management, Teamwork, Problem-solving

Achievements

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
2021	13th out of 1800 , Digikala Data Science Cup 2021 (The largest online store in Iran)	Iran
2020	Tuition Waived for M.Sc degree , Iranian University Entrance Exam, the top 4% among more than 15000 participants.	Iran
2019	37th out of 236 , ICT Contest	Sharif University of Technology, Iran
2016	Tuition Waived for B.Sc degree , Iranian University Entrance Exam, the top 3% among more than 160000 participants.	Iran

Languages

English	Working proficiency
Persian	Native proficiency

Certificate

Offered by DeepLearning.AI, 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.