

Araz Gholipour Shilabin

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Citizenship Status: U.S. Permanent Resident

Research Area

Natural Language Processing, Machine Learning, Deep Learning.

Education

2017-present **Bachelor's Degree (Computer Engineering)**, *University of Tabriz*, Tabriz Iran, **CGPA - 17.66/20 (3.64/4)**.

Relevant Courses GPA - 19.16/20:

- Data Mining
- Computational Intelligence
- Software Engineering 1 & 2
- Database Design
- Data Structure
- Algorithm Design
- Advanced Programming
- Presentation and Research

2013-2017 **High School**, *Allameh Jafari*, Tabriz, Iran.

- National organization for development of exceptional talents, diploma in mathematics and physics.

Experiences

2022 Spring **Teaching Assistant.**

- I will be teaching Algorithms this spring, under the supervision of Dr. Jafar Tanha.

2020 Sep **Summer school: AI and Emerging-Technologies.**

- A summer school held by the Computerized Intelligence Systems Lab (CIS).

2020 Jul **Machine Learning Engineer.**

- Interned for a company called RAYin Samaneh Arta (RASA) for 2 months.
- Built an OCR software that extracted Iranian identification cards' information from images and output them as text

Honors and Awards

ACM-ICPC Tehran Regionals:

- ACM-ICPC Tehran Regionals 2019 ranked: **9**
- ACM-ICPC Tehran Regionals 2018 ranked: **29**
- ACM-ICPC Tehran Regionals 2017 ranked: **36**

2017 Jun **Iran Nationwide University Entrance Exam (Konkoor).**

- ranked within the top 2% among approximately 140,000 participants

Publications

- A Najafi, **A Gholipour-Shilabin**, R Dehkharghani, A Mohammadpur-Fard, M Asgari-Chenaghlu **ComStreamClust: A communicative multi-agent approach to text clustering in streaming data**, Under Review, 2021

Standardized Test Scores

2021 Jul **TOEFL iBT, Score: 102.**

- Reading 24
- Listening 28
- Writing 25
- Speaking 25

Projects

2021 **Movie Recommender System.**

- Implemented a movie recommender system using item and user based collaborative filtering
- The classifier predicts the score a user might give to a movie on a 1-5 scale for the Movielens dataset

2020 **Language Translation.**

- AI model for translating English to German
- Implemented a custom made Transformer-based model from scratch using Tensorflow

2020 **Sentiment analysis using BERT and CNN.**

- Analyzes the sentiment of a given sentence
- The model was trained using the BERT tokenizer and embedder for encoding and CNN for the classification

2020 **Shakespeare Character Based Poem Generation.**

- Generated poems similar to Shakespeare's poems using LSTMs and GRUs

2020 **Kaggle Competition (SIIM-ISIC Melanoma Classification).**

- Handled extremely unbalanced data (anomaly detection)
- Stacked and ensembled different models such as Random Forest and XGBoost
- Used transfer learning on pretrained models such as VGG19 and Xception

2018–2019 **Persian News Stream Clustering.**

- Constructed a fully-customized AI system with three of my classmates
- Implemented a news clustering system that did online topic modeling on streaming data

Skills

Languages

Python, C/C++, C#, Java

Frameworks

Tensorflow, Keras, Pytorch, Flask

Libraries

Numpy, Pandas, Scikit Learn, Matplotlib, Seaborn

Other

LaTeX, Git, Linux, MySQL, Microsoft office

Languages

- **Persian & Azerbaijani:** Bilingual
- **English:** Professional Working Proficiency
- **German & Arabic:** Elementary Proficiency