

Araz Gholipour Shilabin

Citizenship Status: U.S. Permanent Resident

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Research Area

Natural Language Processing, Machine Learning, Deep Learning.

Education

2017–2022 **Bachelor's Degree (Computer Engineering)**, *University of Tabriz*, Tabriz Iran, **CGPA - 3.64/4.**

Relevant Courses GPA - 4/4:

- Data Mining
- Computational Intelligence
- Software Engineering 1
- Software Engineering 2
- Database Design
- Data Structure
- Algorithm Design
- Advanced Programming

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**

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

July 2021 **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 poem similar to Shakespeare's poems using LSTM
- 2020 **Optical character recognition (OCR).**
- Did a month long internship at RAYin Samaneh Arta (RASA) which resulted in an OCR software that extracted Iranian identification cards' information from images and output them as text
- 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.**
- Contributions:
- Constructed a fully-customized AI system in a team of 6 engineers
 - 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

- | | |
|------------------------|------------------------|
| ○ Azerbaijani : Native | ○ Persian : Proficient |
| ○ English : Proficient | ○ German : Elementary |

References

- Associate Prof. Rahim Dehkharghani - Department of Computer Engineering, Isik University, Istanbul, Turkey: rahim.dehkharghani@isikun.edu.tr
- Associate Prof. Jafar Tanha - Department of Computer Engineering, University of Tabriz, Tabriz, Iran: jafar.tanha.pnu@gmail.com
- Dr. Vahed Qazvinian - Co-Founder, CTO (Praisidio, Inc), San Francisco, California, United States: vahed@umich.edu