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
- English : Proficient
- Persian : 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