

# Ali Najafi

## Research Area

Natural Language Processing, Computer Vision, Machine Learning

## Education

2017–2021 **Bachelor's Degree (Computer Engineering)**, *University of Tabriz*, Tabriz, Iran, **CGPA: 3.3/4**

**Bachelor's Project Grade: 19/20 - 4/4**

**Last Two Years GPA: 3.59/4.00**

**Related Courses GPA: 4/4**

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

## 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**, *Annals of Data Science*, 2021(Under Review)

## Standardized Test Scores

July 2021 **IELTS, Score: 7**

- **Listening** 8      ○ **Speaking** 7.5      ○ **Writing** 6.5      ○ **Reading** 6

## 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 MovieLens dataset

2020 **Language Translation**

- AI model for translating English to Italian
- Deploying Transformer-based Model from scratch using Tensorflow and Django

2020 **Sentiment Analysis Ausing Bert Tokenizer And CNN**

- Analyzing the sentiment of sentences using Bert Tokenizer And cnn models

2020 **Shahname (POEM) Character Based Text Generation**

- Generating poem using LSTM model
- Using AI for fun and generating poem similar to Shahname's poems

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

- Stacking and ensembling different models such as Random Forest and XGBoost
- Using transfer learning on pretrained models such as VGG19 and Xception

## 2020 **Music Genre Classification**

- Classifying music genres based on their MFCC spectrogram

## 2019 **Simulated Self Driving Car**

- Developed using DQN (Reinforcement Learning based model)
- Gaining the experience of using KIVI for building user experience

## 2019 **Landmark Detection on Dental Images**

- Detecting special landmarks On dental images
- VGG-face model used as pretrained model for solving this Task

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

- 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

## 2018 **Silk Road Graph Analyzer**

- Solving Travelling Salesman Problem using Dynamic Programming and AntColony

## Teaching

- November 2020 **Git Workshop**, *Department of Computer Engineering, University of Tabriz, Tabriz Iran*
- Teaching Git and Github to Junior Developers

## Skills

### Programming Languages

Python, C#, Java, Scala, C , C++, JavaScript

### Programming Frameworks

Tensorflow, Keras, Pytorch, Django, ReactNative

### Programming Libraries

Numpy, Pandas, Scikit Learn, Matplotlib, Seaborn, Tableau

### Other

Git, L<sup>A</sup>T<sub>E</sub>X, Linux, MySQL

## Languages

- |                        |                          |
|------------------------|--------------------------|
| ◦ Azerbaijani : Native | ◦ English : Proficient   |
| ◦ Persian : Proficient | ◦ Turkish : Intermediate |

## Academic References

- Associate Prof. Mohammad Ali Balafar - Department of Computer Engineering, University of Tabriz, Tabriz, Iran: balafarila@tabrizu.ac.ir
- Associate Prof. Rahim Dehkharghani - Department of Computer Engineering, Isik University, Şile, Turkey: rahim.dehkharghani@isikun.edu.tr
- Dr. Meysam Asgari-Chenaghlu - Department of Computer Engineering, University of Tabriz, Tabriz, Iran: m.asgari@tabrizu.ac.ir