

Ali Najafi

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Research Area

Natural Language Processing, Computer Vision, Deep Learning,
MultiModal Learning, Machine Learning, Text Mining, MultiTask Learning.

Education

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

Thesis Grade: 19/20 - 4/4

GPA of the last two years : 3.59/4.00

Related Courses GPA - 4/4:

- Data Mining: A+
- Artificial Intelligence: A
- Computational Intelligence: A+
- Algorithm Design: A+
- Data Structure: A+
- Database Design: A+
- Software Engineering 1: A+
- Advanced Programming: A+
- Basics of Programming: A+

2014–2017 **H.S. Diploma (Mathematics)**, *High School of Ferdowsi*, Tabriz Iran,
CGPA - 18.68/20.

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 **IELTS (Academic).**
Score: 7:

Listening 8

Speaking 7.5

Writing 6.5

Reading 6

Projects

2021 **Movie Recommender System.**

Contributions:

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

2020 **Language Translation.**

AI model for translating English to Italian.

Contributions:

- Implementing Transformer-based Model from scratch using Tensorflow v2
- Deploying the Translator with Django

2020 **Sentiment analysis using bert Tokenizer and CNN.**

Contributions:

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

2020 **Shahname (poem) Character Based Text Generation.**

Generating poem using LSTM model

Contributions:

- Using AI for fun and generating poem similar to Shahname's poems

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

Contributions:

- Handling extremely unbalanced data
- Constructing MultiModal system
- Stacking and ensembling different models such as Random Forest and XGBoost to achieve better results
- 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.**

Contributions:

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

2019 **Landmark Detection on Dental Images.**

Contributions:

- Detecting special landmarks on dental images
- VGG-face model used as pretrained model for solving this Task
- Multiple image augmentation applied on images

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

We implemented a news stream clustering algorithm and did topic modeling

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

2018 **Silk Road Graph Analyzer.**

Contributions:

- Solving TSP (Travelling Salesman Problem) using (Dynamic Programming)
- Solving TSP (Travelling Salesman Problem) using (AntColony)

Teaching

- November 2020 **Git Workshop**, *University of Tabriz, Tabriz Iran.*
Contributions:
- Teaching Git and Github to freshmen

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

DataBase Tools

MySQL

Other

Git, \LaTeX , Linux

Languages

Azeri	Native
Persian	Native
English	Fluent
Arabic	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