# MAZYAR GHEZELJI

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#### **EDUCATION**

• Master of Science in Artificial Intelligence K.N.Toosi University of Technology, Tehran, Iran September 2019 - current

• Bachelor of Science in Software Engineering

September 2015 - June 2019

Urmia University, Urmia, Iran

Overall GPA: 3.41 out of 4 (last two years GPA: 3.62 out of 4)

**Major GPA:** 3.54 out of 4

Thesis title: The impact of preprocessing on word prediction using Markov model. (20/20)

Supervisor: Dr. Saeed Shahrivari

#### RESEARCH INTERESTS

• Machine Learning, Deep Learning

- Data Mining
- Social Networks
- Information Retrieval
- Natural Language Processing

# **PUBLICATIONS**

• M.Ghezelji, C.Dadkhah, "Personality-Boosted Matrix Factorization for Recommender Systems", Journal of Applied Intelligence. (In preparation)

# ACADEMIC ACHIEVEMENTS

- Ranked 2<sup>nd</sup>: Among 50 CE Students in Bachelor's program, Urmia University, Urmia, 2015-2019.
- Winner: In AI Contest of Digikala Company, 2019.
- Within the top 1%: Among approximately 130,000 participants in Iranian University Entrance Exam for Master's degree in Computer Science (konkoor), 2019.
- Ranked 1<sup>st</sup>: In Urmia University pre-ACM ICPC problem solving contest, Urmia University, Urmia, 2018.
- Accepted: In regional ACM programming contest, Sharif University of Technology, Tehran, Iran, 2018.
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#### NOTABLE PROJECTS

• Assessing different feature selection methods

This project was one of my personal projects. I implemented different feature selection methods like univariate selection, feature Gini importance, and correlations.

# • Improving Matrix Factorization technique in Machine Learning

Implementing Matrix Factorization and using auxiliary information with the goal of improving it. The result of this experiment was the paper which was published in the Journal of Applied Intelligence.

# • The impact of input text classification on word prediction using Markov model

This project was my undergraduate's final project. The goal of this project was to increase text prediction accuracy by building models on grouped data, then predicting text based on the group of user's previous written text.

# • Implementing an item based recommender system in python

It was a recommender system on 130.000 fashion items and i was trying to find out the difference between recommenders that use pictures and the ones that use attributes.

# • An information retrieval system implementation using python on Hamshahri corpus (Persian Language)

This project was done for information retrieval system undergraduate course. It aims at building information retrieval systems for persian language (which there is small number of works done). This implementation has been utilized by many researchers after I published it on github.

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#### • Training neural networks with evolutionary algorithms

Training neural network with algorithms like PSO, GA and grasshopper optimization.

# • Predicting items that a user will buy in the next month

It was a part of the contest for Digikala company winter AI camp(largest online retail company in Iran and Middle East). I used Neural Networks and Random forest to solve the problem.

#### • Arduino voice control

Sending and receiving data between Android (voice commands and text-to-speech) and Arduino using Bluetooth connection.

#### WORK EXPERIENCE

# • Digikala Company

Artificial Intelligence Intern

November 2019 - January 2020

3 moth internship at Digikala Next AI center after wining the Digikala AI contest. I was working on Dynamic pricing as my project for the internship program.

# • Doodkani IT Department

June 2018 - August 2018

Android Developer

On-site internship under this Information Technology company. I implemented an android application for students and teachers of a foreign language Institute .

# TEACHING EXPERIENCE

• Teaching Assistant: Software Engineering II.

Department of Computer Engineering, Urmia University.

Instructor: Dr. Parviz Rashidi.

Winter 2018.

• Teaching Assistant: English Language.

Fattahi Institute, Boukan, Iran.

2010-2012.

#### **CERTIFICATES**

# • Deep Learning course

Coursera.org September 2020.

# • Artificial Intelligence summer school:

Institute for Research in Fundamental Sciences (IPM) Tehran, Iran

August 2020.

#### • Winter Seminar Series

Sharif University of Technology Tehran, Iran January 2020.

#### • ACM ICPC Contest

Sharif University of Technology Tehran, Iran 2017, 2018.

#### TECHNICAL SKILLS

Programming languages Python, Java, C, C++, C#, MATLAB

Scientific Libraries Numpy, Matplotlib, Pandas, Scikit-Learn, Tensorflow, Keras, Nltk, PyTorch

Operating Systems Linux, Windows, Mac Os, Android

Databases SQL database, MySql

# SELECTED COURSES

• Artificial Intelligence-Expert Systems, Dr. Sharifi: 19.5/20

• Fundamentals of Information Retrieve and Web Search, Dr. Shoja: 19.75/20

• Internet Engineering, Dr. Sharifi: 20/20

• Network Security, Dr. Asgharian: 19.75/20

• Engineering Statistics and Probabilities, Dr. Ghalebsaz: 18.70/20

#### LANGUAGES

• English: TOEFL: 101 (Reading: 26, Listening: 29, Speaking: 24, Writing: 22)

• Kurdish: Mother tongue

• Persian: Native

• French: Amateur

• Azeri:Amateur

# PERSONAL TRAITS

- Highly motivated and eager to learn new things.
- Interested in Academic Research.
- Ability to work as an individual as well as in group.