MAZYAR GHEZELJI

Department of Computer Engineering, K.N.Toosi university of technology, Tehran, Iran.

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EDUCATION

- **Master of Science in Software Engineering**　　　　　　　　　　　*September 2019 - current*
  K.N.Toosi University of Technology, Tehran, Iran

- **Bachelor of Science in Software Engineering**　　　　　　　　*September 2015 - June 2019*
  Urmia University, Urmia, Iran
  GPA: *Overall*: 16.74/20, *Specialized*: 18.14/20, *Last academic year*: 17.87/20,
  Thesis title: Word Prediction using Markov Chains and Text Classification methods (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. (submitted)**

ACADEMIC ACHIEVEMENTS

- **Ranked 1st:** Among 50 CE Students for the last two academic years, Urmia University, Urmia, 2017-2019.
- **Ranked 2nd:** 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 1st:** 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.
- **Accepted:** In regional ACM programmin contest, Sharif University of Technology, Tehran, Iran, 2017.

NOTABLE PROJECTS

- **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.

- **Word Prediction using Markov Chains and Text Classification methods**
  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.

- **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.

- **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** November 2019 - January 2020
  Artificial Intelligence Intern

  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
  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, Version Control(Git and Github).
  Department of Computer Engineering, Urmia University.
  Instructor: Dr. Parviz Rashidi.
  Winter 2018.

- **Teaching Assistant:** English Language.
  Fattahi Institute, Boukan, Iran.
  2010-2012.

TECHNICAL SKILLS

Programming languages	Python, Java, C, C++, C#, MATLAB
Scientific Libraries	Numpy, Matplotlib, Pandas, ScikitLearn, 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.