

Mohammad Younesi

Senior Student of Computer Science Department
University of Western Ontario

CONTACT

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EDUCATION

University of Western Ontario, London, Canada 2021 - now

M.SC. IN ARTIFICIAL INTELLIGENCE (CS Department)

Sharif University of Technology, Tehran, Iran 2014 - 2019

B.SC. IN ELECTRICAL ENGINEERING & COMPUTER SCIENCES

- Digital Systems Engineering Branch
- GPA: 3.92/4 – 18.04/20 (Last Two Years: GPA: 3.96 – 18.27/20)
- GPA: 4/4 - 18.6 in 2nd major (Computer Science)

Alborz (Iran College), Tehran, Iran 2010 - 2013

High School Diploma in Mathematics and Physics

- GPA: 4/4 - 19.97/20

FIELDS OF INTEREST

- Artificial Intelligence (AI)
- Mathematics & Algorithm
- Machine Learning
- Data Science
- Information Theory
- Computer Vision
- Statistics
- Computational Neuro Science

HONORS & AWARDS

- Vector Scholarship winner in AI
- Ranked 36th out of 250,000+ undergraduate applicants in the National Universities Entrance Exam (KONKOOOR) for B.Sc. degree, June 2014
- Ranked 2nd out of 15,000+ graduate applicants in the Computer Engineering National Universities Entrance Exam for M.Sc. degree, may 2019
- Access to Final step of Iran national Mathematics Olympiad 2 times, 2013 & 2012 and Iran national Informatics Olympiad 1 time, 2013
- Member of National Iranian Elites Foundation Since 2014

RESEARCH

Biomedical Signal and Image Processing Group

Supervisor: Prof. M.B. Shamsollahi

Focus: Analysis of Biomedical Signals in various tasks and behaviors in order to find patterns about its functionality using machine learning, pattern recognition methods. Using Extensions of Hidden Markov Models to classify sleep stages and detect sleep disorders.

Brain and Mind Institute

Supervisor: Prof. Yalda Mohsenzadeh

Focus: Computing image memorabilities and developing models in order to compute the memorabilities and trying to increase the change the memorability scores of the images.

TEACHING ASSISTANCE AND INDUSTRIAL EXPERIENCE

- **Data Analysis and Visualization** (Dr. Wang)
Tutor and Grader
- **Data Structure and Algorithm** (Dr. Roberto Solis-Oba)
Tutor and Grader
- **Machine Learning** (Dr. Golestani)
Tutor, Grader and Homework designer
- **Signals & Systems** (Dr. Babaeizadeh Malmiri & Dr. Sameti)
Tutor , Grader and Exam Designer
- **Working as Data Scientist at Tap30**
- **Automatic Comment Filtering at Digikala**
- **Finding Most Important Features in Car Advertising for Car Sales at Cafe Bazaar**

PERSONALITY

- Hard-working
- Adaptable
- Creative
- Teamwork spirit
- Self-learner
- Caring

SELECTED ACADEMIC PROJECTS

- **Capstone Project:** Using extensions of HMM for classification
- Classification of product's consumer reviews & decide whether to show their reviews or not– Regression Analysis
- Detroit blight ticket compliance – Machine Learning
- Motion detection from Kinect dataset – Machine Learning & Computer Vision Lab
- High performance Discrete Fourier Transforms on graphics processors using CUDA – Parallel Programming
- Implementing various types of static & dynamic routing using GNS3 – Data Communication Networks
- Secure chat application – Data Communication Networks
- Bomberman game using Java & Java FX – Advanced Programming
- Implementing different CPU scheduling algorithms – Operational System
- Android quiz-up game – Advance Programming Lab
- Reading and writing on RFID cards using Arduino – Computer Interface Circuits
- MATLAB signal processing vocoder & hybrid image – Digital Signal Processing
- MATLAB Simulation - AM&FM modulation and Costa demodulator– Communication systems
- Design & implementation of AM transmitter – Electronic Principles & Lab
- Design & implementation of smart alarm clock logic circuit - Logic Circuits
- MATLAB simulation of Hodgkin-Huxley model for cell's membrane – Biomedical Engineering Fundamentals

SKILLS

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| • Python | Expert |
| • Java/Java FX | Expert |
| • MATLAB and SIMULINK | Expert |
| • C, C++ | upper-intermediate |
| • Android Programming | Intermediate |
| • Web Programming , HTML, CSS, Java script, Django | Intermediate |
| • Circuit Design , Verilog, Quartus, Model-sim, PSPICE, HSPICE, Proteus and Altium Designer | Intermediate |
| • Assembly and Micro-Controller , Mips, AVR, ARM, Arduino | Intermediate |
| • Sage | Intermediate |
| • Data Network , NS3, GNS3 | Intermediate |
| • Office Tools , Word, LATEX, PowerPoint, Excel | Expert |
| • Adobe , Photoshop, Illustrator | Intermediate |