

Ashkan Yousefi

[Gmail](#) | [Google Scholar](#) | [LinkedIn](#)

Student, Teaching Assistant and Research Assistant, School of Industrial Engineering, Kharazmi University, Tehran, Iran

Education

B.Sc., Industrial Engineering

Fall 2021 - Spring 2025

Kharazmi University, Tehran, Iran

- Current GPA: **3.87/4**

Bachelor Project: ""

Supervisor: Prof. [Seyed Hamid Reza Pasandideh](#)

- Ranked 2nd in my major

High School Diploma, Mathematics and Physics

Fall 2018 - Spring 2021

National Organization for Development of Exceptional Talents (Sampad), Tehran, Iran

Research Interests

- Data-Driven Decision Making
- Data Science
- Machine Learning
- Supply Chain Logistics
- Statistics & Applied Probability
- Computer Vision

Skills

Python	Optimization, Dataset Analysis	Photoshop, Premiere, Canva
ML, DL, Computer Vision	SQL	MS Office
Minitab, SPSS	Visual Paradigm	AutoCAD
Pytorch, Scikit-learn	Git, Github	Arena, Simul8
Tensorflow	LaTeX, OverLeaf	Gurobi
Vensim	Primavera	

Soft Skills:

A highly adaptable fast learner with strong teamwork skills, thriving in collaborative environments. When the situation demands, I step up to drive initiatives and guide teams toward success. I excel at making critical decisions under pressure and remain calm in challenging situations. With a sharp eye for detail, I ensure accuracy and precision in everything I do. My goal is to continuously grow and deliver impactful results.

Teaching Experience

Teaching Assistant Probability Theory & Applications, Dr. Orod Ahmadi , Kharazmi University	Fall 2023
Teaching Assistant Probability Theory & Applications, Dr. Hamed Davari Ardakani , Kharazmi University Computer Programming, Dr. Hamidreza Izadbakhsh , Kharazmi University	Spring 2024
Teaching Assistant Probability Theory & Applications, Dr. Orod Ahmadi , Kharazmi University Operations Research II, Dr. Seyed Hamid Reza Pasandideh , Kharazmi University Engineering Statistics, Prof. Yousof Shamstabar , Kharazmi University	Fall 2024
Teaching Assistant Statistical Quality Control, Dr. Orod Ahmadi , Kharazmi University	Spring 2025
Self-Employed Physics, High School and Undergraduate Students	Jan 2023 - Jan 2025

Selected Projects

Develop an Online House Shopping Platform from Scratch Using MongoDB for Database Management, Express.js for Backend Development, and React.js for Frontend Implementation in the Course of Database Management Systems. Fall 2023

ICH Brain CT Classification via Deep Learning Summer 2024
finding a generalizable set of hyper-parameters, enhancing ResNet, VGG16, DenseNet, and MobileNet, modeling the clinical scenarios.

Develop an Emotion Detection Model Using TensorFlow and YOLO by Recreating a Model Similar to VGGNet-2 in the Context of the Graph Algorithms Course. Spring 2024
This project involves developing an emotion detection model using TensorFlow and YOLO, inspired by VGGNet-2, to classify five emotions—anger, happiness, neutral, sadness, and surprise—in images and live webcam feeds. The dataset is divided for training, testing, and validation, with the model achieving over 60% accuracy for each emotion. The model also overlays corresponding emojis on detected emotions in real-time.

8-Bit RISC Processor Implementation Using Verilog Spring 2023
Developed an 8-bit RISC processor in Verilog with ALU, memory, ROM, bus, program counter, and decoder, supporting efficient instruction execution including arithmetic, comparison, and data manipulation operations

Signals and Systems project: Convolution and Audio Processing Spring 2024
Applied convolution techniques in audio signal processing using **MATLAB**, including tasks like modifying audio files, simulating echo effects, performing cross-synthesis, and calculating Fourier series coefficients

Selected Course

Differential Equations	4/4	Inventory Planning & Control I	4/4
Computer Programming	4/4	Project Management and Control	4/4
Numerical Analysis	4/4	Operations Research II	4/4
Maintenance Planning	4/4	Systems Analysis	4/4
Probability Theory & Applications	4/4	Facilities Planning	4/4
Linear Algebra	4/4	Statistical Quality Control	4/4
Engineering Economics	4/4	Transportation Planning	4/4
Operations Research I	4/4	Principles of Simulation	4/4
Engineering Statistics	4/4	Technical English	4/4
Motion & Time Study	4/4	Production Planning	4/4

Industrial Experiences

Research Experience

Barbod AI Lab

- Project

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- Responsibilities included:
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Publication

Voluntary Work

Industrial Engineering Kharazmi University Students' Scientific Association

- Fall 2023-Spring 2024 Member
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- Fall 2024-Spring 2025 Central Council Member
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