




Amir Pourmand

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Research Interests

- ◇ Deep Learning
- ◇ Computer Vision
- ◇ Natural Language Processing
- ◇ Reinforcement Learning

Education

Sharif University of Technology

Sep. 2020 - Present

Master of Science in Artificial Intelligence and Robotics

Tehran, Iran

- ◇ GPA: **18.7/20** or 4/4
- ◇ Relevant courses (GPA: 19.25/20): Machine Learning (19.5/20), Statistical Machine Learning (19/20)
- ◇ Master's Project
 - ◇ Project Supervisor: [Prof. Hamid R. Rabiee](#)
 - ◇ Project Title: Real-time automatic Polyp detection and classification using explainable artificial intelligence
 - ◇ Project Summary: We want to localize and classify polyps within an object. However, as doctors have to do a biopsy, some pixels should be highlighted which is the requirement of being interpretable. Hence, we are building interpretable real-time YOLO (combined project with the Tehran University of Medical Sciences).

Yazd University

Sep. 2016 - Sep. 2020

Bachelor of Science in Computer Engineering

Yazd, Iran

- ◇ GPA: **17.47/20** or 3.66/4 , Units: 140
- ◇ Relevant courses (GPA: **19.95/20**): Intelligence and Expert systems (19.7/20), Foundations of Information Retrieval and Web Search (20/20), Fundamentals of Information Technology (20/20), Microprocessors and Assembly Language (20/20), Principles of Database Design (20/20), Internet Engineering (20/20)
- ◇ Bachelor's Project
 - ◇ Project Supervisor: [Prof. V. Derhami](#)
 - ◇ Project Title: A Recommendation System for shopping centers using Apriori Algorithm
 - ◇ Project Summary: The data was extracted from SQL-Server database and used to determine frequent itemsets and their metrics such as confidence and lift; then, It was used to recommend some goods to customers.

Malek Sabet High School

Sep 2012 - June. 2016

Diploma in Physics and Mathematics Discipline

Yazd, Iran

GPA: **19.49/20**, Units: 102, [Affiliation: Governmental leading high school](#)

Honors and Awards

- ◇ Awarded a grant by **National Elite Foundation** for two semesters (1 year), October 2021.
- ◇ Ranked **1st** among over 16,000 graduate applicants in the Iranian National University Entrance Exam for M.Sc. of Computer Engineering in **7 (all CE) majors**, August 2020 (This rank is **unprecedented** in history of CE University entrance exam). [\[Certificate\]](#)
- ◇ **Silver Medal** in the 25th Scientific Olympiads for Iranian University Students in February 2021. [\[Link to Olympiad website\]](#)
- ◇ Ranked **1st** in the 24th Scientific Olympiads for Iranian University Students in Region 6 and Ranked **16th** in the country in 2019. [\[Link to Olympiad website\]](#)
- ◇ Offered admission to M.Sc. program in Artificial Intelligence at Yazd University as talented undergraduate student, August 2020.
- ◇ Ranked among top 1 percent in the Iranian National University Entrance Exam (1896th among over 300,000 participants), June 2016.

Under Prepration papers

Predicting who will benefit from ETV in pediatric population with hydrocephalus

Jan 2021 - Present

Sharif University of Technology, Shiraz University of Medical Sciences

Supervisor: Prof. Hamid R. Rabiee

Description: Prediction of ETV-Success in children using explainable AI (XAI).

Academic Projects

Deep Learning

Aug 2021 - Jan 2022

Sharif University of Technology, <https://github.com/pourmand1376/DL-Homeworks>

Supervisor: Prof. Hamid Beigy

Stochastic Process

Aug 2021 - Jan 2022

Sharif University of Technology, <https://github.com/pourmand1376/SP-Homeworks>

Supervisor: Prof. Hamid R. Rabiee

Machine Learning

Jan 2021 - July 2021

Sharif University of Technology, <https://github.com/pourmand1376/ML-projects>

Supervisor: Dr. M. Rohban

Statistical Machine Learning

Jan 2021 - July 2021

Sharif University of Technology, <https://github.com/pourmand1376/SML-projects>

Supervisor: Prof. Rabiee

Digital Image Processing

Jan 2021 - July 2021

Sharif University of Technology, <https://github.com/pourmand1376/DIP-projects>

Supervisor: Prof. Kasaei

Compiler and Parser

December 2019

Yazd University, <https://github.com/pourmand1376/Parser>

Supervisor: Dr. ZarePour

Description: Implementation of LL(0), LR(0), SLR(1), CLR(1) algorithms in C# from scratch.

Web Crawler, Indexer and Search Engine Web Application

November 2018

Yazd University, <https://github.com/pourmand1376/Crawler>

Supervisor: Dr. A. Zareh

Description: Web Crawler fetches all sites from the seeds and crawls all other related links. Indexer makes it easy to search from search engine web application written in ASP.NET MVC.

Industrial Projects

Heart Rate Monitor Application (ECG)

July 2019 - Sep 2019

Yazd University

Supervisor: Prof. V. Derhami

Description: An Android app to monitor heart rate and draw its graph in realtime.

Web application to manage invoice and account

January 2019 – March 2019

Amapardazesh Sepand Inc., Tavoni Etebar Kargaran Bafgh (Samen)

Supervisor: S. Tavakoli

Description: ASP.NET web application to manage invoice for customers, also providing a RESTful API for Android client.

Car Management for IranKhodro

July 2013 – November 2013

Amapardazesh Sepand Inc., IranKhodro Yazd (4022 Branch - Farashahi)

Supervisor: S. Tavakoli

Description: Win-Forms application to manage parking lots and control the entrance and exit of vehicles, also providing management reports.

Open Source Contributions

Translating ShareX to Persian

July 2019 – August 2019

Link to repo: <https://github.com/pourmand1376/ShareX>

Supervisor (Maintainer): Jaex

Internships

Web and android application for restaurant

July 2018 – October 2018

Amapardazesh Sepand Inc.

Supervisor: S. Tavakoli

Description: RESTful API for Android client written in ASP.NET. Currently, it is **widely used** in Yazd restaurants.

Teaching Experiences

Stochastic Processes for Bioinformatics

Sharif University of Technology

Jan 2022 - Present

Supervisor: Dr. Mohammad H. Rohban

Linear Algebra

Sharif University of Technology

Aug 2021 - Jan 2022

Supervisor: Prof. Hamid R. Rabiee

Operating Systems Laboratory

Sharif University of Technology, <https://github.com/Sharif-OS-Lab>

Aug 2021 - Jan 2022

Supervisor: Dr. Beigy

Principles of Information Technology Strategic Management and Planning

Yazd University

January 2019 – July 2019

Supervisor: Dr. M. Matinkhah

Fundamentals of Information Technology

Yazd University

September 2018 – January 2019

Supervisor: Dr. M. Matinkhah

Programming Fundamentals

Yazd University

January 2018 – July 2018

Supervisor: Dr. R. Sheykhpour

Work Experiences

Software Developer

Amapardazesh Sepand Inc., <http://www.amapardazesh.com/>

July 2016 – January 2020

Supervisor: S. Tavakoli

Description: I worked four years for Sepand Inc. in different projects. Some of the projects I worked on:

- ◇ Query Optimization in SQL-Server
- ◇ Automatic updating of application using GoogleDrive API
- ◇ Report generator for DataGridView in StimulSoft Report
- ◇ Integrating different devices (POS, Scale, SMS, TelegramBot) with Sepand Application
- ◇ Database Schema Comparer and Upgrader using DACPAC

English Teacher

Zaban Gostar Institute

July 2017 – January 2018

Supervisor: F. Fatemi

Description: Teaching English to pre-intermediate students for one semester.

Technical Skills

Programming Languages: Proficient: C#, Python, SQL (T-SQL); Intermediate: Java, MATLAB

Developer Tools: VS Code, Jupyter Notebooks, Visual Studio, Android Studio

Databases: Proficient in SQL-Server

Tools: L^AT_EX, Git, Docker, Jekyll

Operating Systems: Manjaro (Arch Linux), Kubuntu (Debian), Windows

Languages

English: TOEFL: 103 (R: 27, L: 26, S:24, W:26) (Equivalent to C1)

ILI Certificate (Equivalent to C2)

Persian: Native

Arabic: Basic

Extracurricular

Sports: Mountain climbing, biking, swimming, playing chess!

Other activities: Blogging

References

Prof. Hamid R. Rabiee

Professor of Computer Engineering Department, <http://sharif.edu/~rabiee/>

rabiee@sharif.edu

Sharif University of Technology

Prof. Vali Derhami

Professor of Computer Engineering Department, <https://pws.yazd.ac.ir/derhami/en/>

vderhami@yazd.ac.ir

Yazd University

Dr. Mojtaba Matinkhah

Assistant professor of Computer Engineering Department, <https://pws.yazd.ac.ir/matinkhah/>

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Yazd University

Dr. Jamal ZarePour

Assistant professor of Computer Science Department, <https://pws.yazd.ac.ir/jzarepour/>

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Yazd University