




Amir Pourmand

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Research Interests

◇ **Deep Learning** ◇ Computer Vision ◇ Machine Learning ◇ Reinforcement Learning

Education

Sharif University of Technology

Sep. 2020 - Present

Master of Science in Artificial Intelligence and Robotics

Tehran, Iran

- ◇ GPA: **4/4** or 18.7/20
- ◇ 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: Using real-time object recognition algorithms such as YOLO, we are trying to classify images and also draw a boundary box for detected polyps which is of high importance to experts. We expect to propose a better model to accurately predict polyps (combined project with the Tehran University of Medical Sciences).

Yazd University

Sep. 2016 - Sep. 2020

Bachelor of Science in Computer Engineering

Yazd, Iran

- ◇ GPA: **3.66/4** or 17.47/20, 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 Preparation papers

Prediction of ETV-Success by interpretable artificial intelligence (XAI)

Sharif University of Technology, Shiraz University of Medical Sciences

Description: Prediction of ETV using XGBoost

Jan 2021 - Present

Supervisor: Prof. Hamid R. Rabiee

Academic Projects

Machine Learning

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

Description:

Jan 2021 - July 2021

Supervisor: Dr. M. Rohban

Statistical Machine Learning

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

Description:

Jan 2021 - July 2021

Supervisor: Prof. Rabiee

Digital Image Processing

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

Description:

Jan 2021 - July 2021

Supervisor: Prof. Kasaei

Compiler and Parser

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

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

December 2019

Supervisor: Dr. ZarePour

Web Crawler, Indexer and Search Engine Web Application

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

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.

November 2018

Supervisor: Dr. A. Zareh

Industrial Projects

Heart Rate Monitor Application (ECG)

Yazd University

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

July 2019 - Sep 2019

Supervisor: Prof. V. Derhami

Web application to manage invoice and account

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

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

January 2019 – March 2019

Supervisor: S. Tavakoli

Car Management for IranKhodro

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

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

July 2013 – November 2013

Supervisor: S. Tavakoli

Open Source Contributions

Translating ShareX to Persian

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

July 2019 – August 2019

Supervisor (Maintainer): Jaex

Internships

Web and android application for restaurant

Amapardazesh Sepand Inc.

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

July 2018 – October 2018

Supervisor: S. Tavakoli

Teaching Experiences

Linear Algebra

Sharif University of Technology

Description: Designing and grading of Practical homework #5

Aug 2021 - Present

Supervisor: Prof. Hamid R. Rabiee

Operating Systems Laboratory

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

Description: Teaching sessions and grading of assignments

Aug 2021 - Present

Supervisor: Dr. Beigy

Principles of Information Technology Strategic Management and Planning

Yazd University

Description: Designing and grading of homework, Updating course website

January 2019 – July 2019

Supervisor: Dr. M. Matinkhah

Fundamentals of Information Technology

Yazd University

Description: Designing and grading of homework, Updating course website

September 2018 – January 2019

Supervisor: Dr. M. Matinkhah

Programming Fundamentals

Yazd University

Description: Teaching once a week , Grading exams, Designing and grading of homework

January 2018 –July 2018

Supervisor: Dr. R. SheykhPour

Work Experiences

Software Developer

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

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

July 2016 – January 2020

Supervisor: S. Tavakoli

- ◇ 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

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

July 2017 – January 2018

Supervisor: F. Fatemi

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, Jekyll

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

Languages

English: Fluent. TOEFL test will be taken on 20 Nov. 2021 - [Iran Language Institute Course Completion 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/>

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Sharif University of Technology

Prof. Vali Derhami

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

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Yazd University

Dr. Mojtaba Matinkhah

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Yazd University

Dr. Jamal ZarePour

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Yazd University