


# Amir Pourmand

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 github.com/pourmand1376  https://pourmand1376.github.io/

## Research Interests

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

## Education

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### 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 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
- ◇ Project Supervisor: [Prof. V. Derhami](#)
- ◇ Project Title: Applying Apriori Algorithm to Shopping data to determine Frequent item sets
- ◇ Project Summary: The data was extracted from SQL-Server database and used to determine frequent patterns and their metrics such as confidence and lift.
- ◇ 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)

### 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

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- ◇ Awarded a grant by **National Elite Foundation** for two semesters (1 year) in 2021
- ◇ Ranked **1st** among over 16,000 graduate applicants in 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 25th Scientific Olympiads for University Students in 2020. [\[Link to Olympiad website\]](#)
- ◇ Ranked **1st** in 24th Scientific Olympiads for University Students in Region 6 and Ranked **16th** in the country (Iran) in 2019. [\[Link to Olympiad website\]](#)
- ◇ Offered admission to M.Sc. program in Artificial Intelligence at Yazd University as talented undergraduate student, Aug 2020
- ◇ Ranked among top 1 percent in the National University Entrance Exam (1896th among over 300,000 participants), summer 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 which is 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 in realtime

2019

Supervisor: Prof. V. Derhami

### Web application to review invoice and account info

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

Description: To-Do

January 2019 – March 2019

Supervisor: S. Tavakoli

### Car Management for IranKhodro

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

Description: Project to manage cars, parking lots, entrance and exit of the cars and it was also used to get management reports.

July 2013 – November 2013

Supervisor: S. Tavakoli

## Open Source Contributions

### Translating ShareX to Persian

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

July 2019 – August 2019

Supervisor (Maintainer): Jaex

## Internships

### Web and android application for restaurant

Amapardazesh Sepand Inc.

Description: RESTful Web API for android application to connect to SQL-Server and submit an invoice with it. This application is widely used in Yazd restaurants.

July 2018 – October 2018

Supervisor: S. Tavakoli

## Teaching Experiences

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### Linear Algebra

Sharif University of Technology

Description: Designing and grading of practical homeworks

Aug 2021 - Present

Supervisor: Prof. Hamid R. Rabiee

### Operating Systems Laboratory

Sharif University of Technology

Description: Designing and grading of practical homeworks

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

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### Software Developer

Amapardazesh Sepand Inc.

Description: I worked 4 years for Sepand Inc. in different projects. It's an accounting software company which is using C# and SQL-Server.

July 2016 – January 2020

Supervisor: S. Tavakoli

### English Teacher

Zaban Gostar Institute

Description: To-Do

July 2017 – January 2018

Supervisor: F. Fatemi

## Technical Skills

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**Programming Languages:** Proficient in C#, Python, MATLAB ,SQL , Java; basic ability to work with C, C++.

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

**Databases:** Relational: SQL-SERVER; Non-Relational: MongoDB

**Tools:** L<sup>A</sup>T<sub>E</sub>X, GIT, SVN

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

## Languages

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**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

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

**Other activities:** Blogging

## References

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### Prof. Hamid R. Rabiee

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

[rabiee@sharif.ir](mailto:rabiee@sharif.ir)

Sharif University of Technology

### Prof. Vali Derhami

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

[vderhami@yazd.ac.ir](mailto: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