





Amir Pourmand

✉ pourmand1376@gmail.com ✉ a.pourmand@sharif.edu  linkedin.com/in/amir-pourmand
 github.com/pourmand1376  https://amirpourmand.ir/  https://aprd.ir/

About Me

After working as a Full-Stack .Net Developer, I made a decision to enter the field of AI and pursued studies in AI at Sharif University of Technology. Currently, I am looking for job opportunities in the areas of Data Science or MLOps.

Work Experiences

Deep Learning Researcher

Jan 2021 – Present

Data Science and Machine Learning Lab, Sharif University of Technology

Supervisor: Hamid R. Rabiee

Description: I successfully completed two laboratory projects, which were:

- ◇ Real-time Automatic Polyp detection and classification using Interpretable AI (XAI)
- ◇ Real-time Detection of Brain Aneurysms using Multi-View YOLOv5

Software Developer

July 2016 – January 2020

Amapardazesh Sepand Inc.

Supervisor: S. Tavakoli

Description: The projects I worked on during my four years with Sepand Inc. were as follows:

- ◇ 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

Technical Skills

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

Data Science Libraries: PyTorch, Pandas, Numpy, OpenCV, scikit-learn, Matplotlib, Scrapy

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

Databases: Proficient in SQL-Server, Familiarity with Mongo-Db

Tools: Git, Docker, Jekyll, Hugo, L^AT_EX,

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

Education

Sharif University of Technology

Sep. 2020 - Present

Master of Science in Artificial Intelligence and Robotics

Tehran, Iran

- ◇ GPA: 18.83/20
- ◇ Relevant courses: Deep Learning, Natural Language Processing, Computer Vision, Machine Learning

Yazd University

Sep. 2016 - Sep. 2020

Bachelor of Science in Computer Engineering

Yazd, Iran

- ◇ GPA: 17.47/20
- ◇ Relevant courses: Intelligent and Expert Systems, Algorithms and Data Structures, Principles of Database Design, Foundations of Information Retrieval and Web Search

Internships

Web application for restaurant

July 2018 – October 2018

Amapardazesh Sepand Inc.

Supervisor: S. Tavakoli

Description: As well as developing a RESTful API service for Android devices, I built a dashboard (based on ASP.NET) for managers to customize the restaurant according to their preferences.

Industrial Projects

Heart Rate Monitor Application (ECG)

Yazd University

July 2019 - Sep 2019

Supervisor: Prof. V. Derhami

Description: The app receives real-time data from a wireless ECG device via Bluetooth and displays it as a graph. However, some of the data was distorted or lost, making it difficult to consistently display it.

Web application to manage invoice and account

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

January 2019 – March 2019

Supervisor: S. Tavakoli

Description: This web application provides a RESTful API for Android clients and an ASP.NET web application to show customers how much they owe the company.

Car Management for IranKhodro

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

July 2013 – November 2013

Supervisor: S. Tavakoli

Description: My first encounter with any programming language was with this Windows-forms application that managed parking lots, controlled vehicle entrance and exit, and generated management reports.

Academic Projects

Deep Learning

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

Aug 2021 - Jan 2022

Supervisor: Prof. Hamid Beigy

Stochastic Process

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

Aug 2021 - Jan 2022

Supervisor: Prof. Hamid R. Rabiee

Machine Learning

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

Jan 2021 - July 2021

Supervisor: Dr. M. Rohban

Statistical Machine Learning

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

Jan 2021 - July 2021

Supervisor: Prof. Rabiee

Digital Image Processing

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

Jan 2021 - July 2021

Supervisor: Prof. Kasaei

Compiler and Parser

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

December 2019

Supervisor: Dr. ZarePour

Web Crawler, Indexer and Search Engine Web Application

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

November 2018

Supervisor: Dr. A. Zareh

Open Source Contributions

Contributions to YOLOv5

Link to repo: <https://github.com/ultralytics/yolov5>, #9059, #8694, #8766

2022

Maintainer: Glenn Jocher

Contributions to al-folio

Link to repo: <https://github.com/alshedivat/al-folio>

June 2022

Maintainer: Al-Shedivat

Open source Crawler for Persian websites

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

July 2022

Maintainer: Me

Translating ShareX to Persian ([Link](#))

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

July 2019 – August 2019

Maintainer: Jaex

Honors and Awards

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

To Be Submitted Papers

Real-time Detection of Brain Aneurysm via Multi-View YOLOv5

Jun 2022 - Present

Sharif University of Technology, Tehran University of Medical Sciences

Supervisor: Prof. Hamid R. Rabiee

Description: Our project involved customizing the YOLOv5 algorithm to detect brain aneurysms in 2.5D CT scans. The network structure was modified to accept multiple images of the same patient as a single input, which helped the network to make better use of available information.

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 (see amirpourmand.ir/blog and aprd.ir)