

Amir Pourmand

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Work Experiences

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

English Teacher

July 2017 – January 2018

Zaban Gostar Institute

Supervisor: F. Fatemi

Description: I served as an English teacher for pre-intermediate students for one semester.

Technical Skills

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

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

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

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

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** or 4/4
- ◇ Relevant courses: Deep Learning (19.4/20), Natural Language Processing (19.4/20), Machine Learning (19.5/20), Statistical Machine Learning (19/20),
- ◇ Master's Project (Supervisor: Prof. Hamid R. Rabiee):
 - ◇ Project Title: Real-time automatic Polyp detection and classification using interpretable AI (XAI)
 - ◇ Project Summary: The purpose of this paper is to enhance the YOLO algorithm's performance in handling labeled and unlabeled data using a semi-supervised learning framework. The study proposes an innovative approach that integrates semi-supervised learning and interpretability to improve the performance and transparency of the YOLO algorithm.

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 (Supervisor: Prof. V. Derhami):
 - ◇ Project Title: A Recommendation System for shopping centers using Apriori Algorithm
 - ◇ Project Summary: We analyzed data from an SQL-Server database to find frequent item sets and compute metrics such as lift. These insights were then used to suggest products to customers.

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

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.

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.

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.

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)