Amir Pourmand

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About Me

After working as a .Net Developer, I made a decision to enter the field of AI and pursued studies in AI at Sharif University. 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
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, LaTeX,
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

Industrial Projects

Heart Rate Monitor Application (ECG)   July 2019 - Sep 2019
Yazd University   *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   January 2019 – March 2019
Amapardazesh Sepand Inc., Tavoni Etebar Kargaran Bafgh (Samen)   *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   July 2013 – November 2013
Amapardazesh Sepand Inc., IranKhodro Yazd (4022 Branch - Farashahi)   *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   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*

Web Crawler, Indexer and Search Engine Web Application   November 2018
Yazd University, https://github.com/pourmand1376/Crawler   *Supervisor: Dr. A. Zareh*

Open Source Contributions

Contributions to YOLOv5   2022
Link to repo: https://github.com/ultralytics/yolov5, [#9059](#), [#8694](#), [#8766](#)   *Maintainer: Glenn Jocher*

Contributions to al-folio   June 2022
Link to repo: https://github.com/alshedivat/al-folio   *Maintainer: Al-Shedivat*

Open source Crawler for Persian websites   July 2022
Link to repo: https://github.com/pourmand1376/PersianCrawler   *Maintainer: Me*

Translating ShareX to Persian ([Link](#))   July 2019 – August 2019
Link to repo: https://github.com/ShareX/ShareX   *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)