

Hamed Pahlevanhosseini

CONTACT INFORMATION

Email : hamed.pahlevanhosseini1@gmail.com

Cell : (+98) 9304987250

Address: Tehran, Iran

EDUCATION

AmirKabir University of Technology(Tehran Polytechnic)

B.Sc in Computer Science

Tehran, Iran

2020 - 2025

Overall GPA: 3.4/4.00

GPA of last year : 3.6/4.00 = 17.9/20

RESEARCH INTERESTS

Deep Learning, Computer Vision, Image Processing

AWARDS AND HONOR

Attaining a ranking in the top 0.2% out of over 1.1 million candidates on the National University Entrance Exam led to acceptance at one of the best university in my country, as recognized by several rankings such as QS, Times Higher Education, and US News.

PUBLICATIONS

"Empowering Medical Staff: IoT-Based Smart Helmet for Pre- Detection with Orthopedic in COVID-19 "

Accepted in ICMIP 2024 Japan Journal

Authors: Hamed Pahlevanhosseini, Marziyeh Bahrami

Available Online: 15 July 2025

Description: The proposed system is an innovative solution for Covid-19 detection, using a smart shield with thermal imaging and IoT integration to automate fever screening and minimize human contact. It includes face recognition for increased accuracy and aims to help prevent the virus's spread by enhancing screening efficiency. This system addresses urgent healthcare needs and supports pandemic containment efforts.

PROJECTS

"Deep Learning projects (Neural Networks(Topics in CS)-Course ID:1218393)" (Python)

- 1-MLP, 2-Auto-encoder, 3-KAN, 4-GANs
- Knowledge: Tensor, Back-propagation, Latent space, Kolmogorov-Arnold Theorem, B-Splines, Generator and Discriminator, etc.
- Libraries: Pytorch.
- Working with CNN, GAN, ANN, Capsnet

"Online-Shop Database — Course ID:1218333" (SQL,Python)

- Design Database(DB) for an online shop
- Knowledge: Relational Algebra, Functional Dependency, ERD, Normalization
- Libraries: pyodbc, faker, requests, BeautifulSoup, etc.

"Operating-system— CourseID: 1218364 " (C,C++)

- FCFS Algorithm by 2 threads, Round Robin Algorithm by 2 threads, Parallel matrix multiplication server, Grep command for searching
- Knowledge: Semaphor, Workers, Mutex, Threads, and Processes, deadlock
- Libraries: iomanip, algorithm, thread, pthread.h, etc

"Data-Analysis — Data Mining — Course ID: 1218633" (Python)

- Classify and Cluster some datasets using different methods.
- Knowledge: KNN, K-Means, DBSCAN, Decision-Tree, and CNN
- Libraries: pandas, numpy, scipy, sklearn, seaborn, tensorflow, keras, etc.

"Conversion between RGB color model to HSI color model — Linear Algebra — Course ID: 1218193" (Python)

- Describe RGB and HSI models and the formulation of conversion between these two models

"Configuring servers and virtualization environment(ESXi-Vsphere) "— AryaHamrah Co.

- Working with various Databases(SQL, Oracle)
- Network configuration
- Routing protocols(OSPF-BGP)
- work with firewalls(Cisco ASA, Fortigate)
- monitoring softwares(PRTG-Solarwinds)

EXPERIENCES

Teacher Assistant

Dr. Fatemeh Ziaetabar

-Programming, Computer Network

Research Assistant

Dr. Mohammad Hasan Shirali shahreza

Bachelor Thesis, Hoax Detection(Currently working on) —Using Reinforcement learning and ML

Internship

AryaHamrah Co.

Virtualization engineer(Implement various virtualization environment —On-premises Infrastructure — working with active directory and HR database systems(SQL—Oracle)

SKILLS

Programming Languages	C++, Python , Java, C, Matlab
Database	SQL Server, Oracle
OS	Windows, Linux, VM-Ware
Data Science	Maple , Rapid-miner
Frameworks	PyTorch, Tensorflow, numpy
Network	Cisco Certified, CCNA , Network +
Cloud	VMware , Cisco, VSan, ESXI, Hyper-V
Software	MATLAB, LaTeX
Websites	Github, google-colab, Replit

LANGUAGE SKILLS

Persian : Native

English : IELTS Overall 7 (L:7.5 R:7.5 S:6.5 W:6.5)

French : Intermediate (Up to B2)

Arabic : Beginner

PRESENTATION

- CapsNet :Capsule Neural Networks, improving CNNs
- University Neural Networks course
- CNNs: University Image processing Course