AMIR-HOSSEIN SHAHIDZADEH

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EDUCATION

Sharif University Of Technology, Tehran, Iran   *2016 - Present*
BSc. of Computer Engineering   GPA: *17.07/20* (top 10 of Department)
Department of Computer Engineering

Shahed Ansar High school, Ahwaz, Iran   *2013 - 2015*
Diploma in Mathematics and Physics Discipline.   GPA: *18.75/20* (top 5 of school)

RESEARCH INTERESTS

– **Computer Vision**
– **AI for Medical Imaging**
– **Image understanding**
– **Recommander Systems**
– **Digital video surveillance & Motion Tracking**
– **Generate data with GAN**
– **Self-Driving car**
– **Robotics**

ONGOING PROJECT

Inserting Graphical Elements in Multiview Soccer Videos   *2019 - Present*
at Sharif university Image Processing Lab

The project aims at Inserting Elements in Soccer scenes like offside line and automatic soccer video analysis.

TECHNICAL SKILL

Programming	Python, MATLAB, Java, C/C++, Verilog, PHP, HTML, CSS Javascript, SQL, elasticsearch
Libraries	Tensorflow, Scikit-Learn, Pandas, Numpy, Scipy, Matplotlib, Keras, Seaborn, future.
Databases	MySQL, Postgres
Software & Tools	MS Office, latex, Arena, PyCharm, PhpStrom, IntelliJ, ModelSim, Quartus.

RELEVANT COURSES

Coursera
– Introduction to Data Science in python (University of Michigan)
– Applied Machine Learning in Python (University of Michigan)
– Fundamentals of Digital Image and Video Processing (Northwestern University)

Sharif University of Technology
– Signal & System (Prof. H.Sameti)
– Linear Algebra (Prof. N.bagherpour)
– Artificial Intelligence and Deep Learning (Dr. MH.Rohban)
– Machine Learning (Dr. Kaveh Kadkhoda)

ACADEMIC PROJECTS

- **Image Processing**
  - Face Recognition using CNN
  - Object Detection using Cifar 100

- **Artifitial Intelligence**
  - Predicting car prices using Logistic Regression and Gradient Descent.
  - Task Scheduling using Genetic algo.
  - Bayes Net. Infrence
  - Markov Net.
  - Sudoko solver using knowledge base algo.
  - RushHour game using A* algo.

- **Computer Networks**
  - Peer to Peer network using RIP algo.

- **Data Structure**
  - Time and space efficient Dictionary using Ternary trees

- **Advanced programming**
  - Tower Defence which was graphical game using multi-threading & OOP & javaFx

(most of projects are among the best in the class)

TEACHING

Teacher Assistant of Digital System Design　　　　　　　*Sharif University of Technology*

prof. Alireza Ejlali

LANGUAGE

English (conversant), Persian (Native)