Erfan Taghvaei

Phone
+989127936819

Web
www.erfantv.com

E-mail
etaghvaei0098@gmail.com

Python	★ ★ ★ ★ ★ ★
Machine Learning	★ ★ ★ ★ ☆
Algorithm	★ ★ ★ ★ ☆
Linux	★ ★ ★ ☆ ☆

A little about me ...

I'm a computer engineer with an interest in web and app development and a strong foundation in Python programming and Android development. I received my bachelor's degree at the University of Azad University (North Tehran Branch). If I was asked about my strengths it will probably be that I can jump in topics that are unknown to me and get the output I want by just trial and error and breaking things as I have done in my past projects. I have been programming since high school and my goal is to enhance my skills and knowledge in machine learning and AI.

Azad University Tehran

BSc
Final Year GPA: 18.5
[Computer Engineering]

TOEFL
97 / 120

GRE
Quantative Analysis: 160/170

Experience

.NET Intern
Sanat-Afzar Asia | 2013
[Great Intern experience I learned how to comminicate with other fellow Dev team members and the strategies use to meet deadlines. I also learned a lot about the .Net technology stack]

Junior Android Developer
MagiaVas | 2014 - 2015
[As a member of the Android development team, we developed Paygear, An application used for the transfer of money between users and smart finance analysis]

ApplyHub
Co-Founder, Web Developer, Creative Writer | 2019 - 2020
[We founded ApplyHub, an online platform where we offered students services like SOP writing services and guidance on how to apply abroad]

Personal Online Tutor
| 2019 - 2020
[Taught CS topics like C programming and Linear Alebra to students in KTH Royal Institute of Technology, Stockholm, Sweeden using online platforms]

Certifications

Python | Android | Object-Oriented Programming
LinkedIn Passed Assesment| 2020

Skills

Python ★★★★★★★★★☆
Android ★★★★★★★☆☆☆
Pandas ★★★★★★★☆☆☆
Pytorch ★★★★★☆☆☆☆☆
Tensorflow ★★★★☆☆☆☆☆☆
Git ★★★☆☆☆☆☆☆☆

Selected Courses

Operating Systems : A+
Software Engineering : A
Statistics : A
Internship : A+
Physics2 : A+
Human-Computer Interaction : A+
Datavase Design : A+
Electrical Circuits : A
Signal and Systems : A+
Foundations of Programming : A
Mathematics : A
Software Testing : A+
Advanced Mathematics : A
Matlab Workshop : A+

Software

LaTeX
Adobe In-Design
Adobe Photoshop
Abobe Premiere Pro

Competitions

Google Kickstart 2020
Round E: Ranking : 3150
Round C: Ranking: 1800

Iran National Robocup Soccer Competition 2018
Ranked: 2nd
Azad North-Branch University Team

Research Paper

TITLE: COVID19 Personal detection using real-time deep learning systems

Link: https://arxiv.org/abs/2103.14878
During the COVID-19 pandemic in summer 2020, I used my knowledge of machine learning and deep learning to develop a face-maks and glove detecting system to help society at high risk during the covid-19 pandemic and I believe this could be an example of a purposeful combination connecting deep learning and large-scale social challenges. I hope my project could benefit underrepresented populations including the elderly, people with chronic disease, people with less access to the proper healthcare system, and minority groups. Concerning the possible biased of AI toward minorities, I trained my system with a uniformly distributed set of images from different ethnic groups to enhance the sensitivity and specificity of my model.

Internship

Title: Fault Detection in transmission towers using deep learning

During my summer internship at Tadaf Technology, an Iranian company that monitors the status of transmission towers and reports their faults, I realized that a part of their fault-finding tasks was repetitive and potentially could be done by AI. After becoming familiar with deep learning and YOLOv2, I gathered as much data I could and annotated the faults after I researched and got familiarized with transmission towers and their attributes. I also learned to code Pytorch and trained the data into the deep learning model. After the testing phase was finished, the model was able to detect faults in these towers with an accuracy of 92%. I also developed a software for their interactions with their clients which was done using C#.