Hue (MohammadHossein) Salari

Computer Vision Researcher

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CV Updated on Oct 2022

Note: Everything in this color is a link

Summary

I'm a self-motivated and seasoned engineer with an M.Sc. degree in **Artificial Intelligence and Robotics**, passionate about solving real-world challenges using **deep learning**; I develop machine learning systems using **Python** and **PyTorch**. Leadership, attention to detail, thieving in ambiguity, and perseverance are a few of my qualities. I'm a quick learner and a great team worker with a strong work ethic. I'm seeking research opportunities in AI and ML, especially topics related to **semi-supervised** and **weakly-supervised** learning, ML on **Edge devices, object detection**, and **object tracking**.

Education

Mar 2022 – May 2022

AI Bootcamp, *School of Artificial Intelligence, Pi School,* Rome, Italy

I received a full scholarship to participate at the Pi School. I worked on two projects presented by real investors. Namely generating 3D facial animation from audio and texts and estimating the exact amount of fuel left in the car's fuel tank from the OBD device data.

Sep 2018 – Sep 2021

Master of Science, *Islamic Azad University,* Shiraz Branch, Shiraz, Iran
Artificial Intelligence and Robotics **Rank:** 1st in the class, **GPA:** 19.79/20

Thesis: Automated detection of dams' location in satellite imagery and monitoring of the dam's lake reservoir changes using deep neural networks.

Highlights: Building all the datasets needed for the experiment; performing deep learning-based object detection (**YOLOv5**, **Faster R-CNN**, and **RetinaNet**) and image classification (like **VGG**, **ResNet**, etc.) for the detection part of the project and classical image processing technics for change detection.

Sep 2011 – Jul 2016

Bachelor of Science, *Shiraz University of Technology,* Shiraz, Iran
Electrical Engineering **GPA:** 14.37/20

Final project: Recycle & Reward vending machine using ARM Cortex-M µC and barcode reader.

Workshops and Summer Schools

Oct 2022

IEEE GRSS IADF School, *IEEE Geoscience and Remote Sensing Society, Online*

I was selected to join IEEE GRSS First IADF School on Computer vision for earth observation as one of 85 candidates among 700+ applications.

Skills

Programming	Python, C, Golang, MATLAB
AI & ML	PyTorch, TensorFlow/Keras, OpenCV, Pandas, NumPy, scikit-learn
Web Scraping	Beautiful Soup, Scrapy, Selenium
Visualizations	Matplotlib, Plotly
Web	CSS, HTML, Flask, Django
Electrical Engineering	ARM Cortex-M3 family (STM32x), ESP8266, ESP32, Arduino, AVR (ATmega & ATtiny family), STM8, Raspberry Pi, EaglePCB, LoRaWAN

Other — Linux, LaTex, Git

Work Experience

Feb 2019 – Feb 2021

CTO and Co-Founder, *Quarkomm Startup,* Tehran, Iran

I co-founded Quarkomm as the R&D branch of the SEP Co., with the main focus on quickly building the prototypes needed for the parent company and writing proposals for various tenders. We made several prototypes and devices like Optical Infrared Reading Cable for Electricity Consumption Meter, LoRaWAN-based smart streetlight, Image Processing based Recycle and Reward wending machine, etc.

Achievements: Quarkomm was one of only ten teams selected to be stationed in Pardis Technology Park

Aug 2018 – Oct 2019

Head of R&D Department, *SEP Co.,* Tehran, Iran

I led the team responsible for building all facilities needed for reading smart electricity meters and sending its data over the LoRaWAN network; the team also developed a prototype version of a general-purpose firmware platform using C/C++ over AVR/ARM MCU for remote low power measurement over LoRaWAN.

Achievements: - My team proposal was selected as the best technical idea (with a score of 87 out of 100) in the IoT tender of the Hamrah Aval mobile operator.
- Our company won the smart element tender of Mashhad Municipality based on the designs and prototypes of my team.

Apr 2016 – Jan 2017

R&D Electrical Engineer, *Abr Network Startup,* Tehran, Iran

I was in charge of designing a plug-and-play programmable system for teaching electronics to toddlers. During my time at Abr Network, I built two sets of prototypes, one based on STM32 microcontrollers with CAN connection and another using ESP8266 with wireless connection

Teaching Experience

2019-2020 — Teaching **"Introduction to Python & ML",** *Online*

2013 & 2014 Semesters — Teacher assistant in undergraduate course "**Microprocessors",** *Shiraz University of Technology*, Shiraz, Iran

Summer of 2014 — Teaching **"AVR Microcontrollers"** in *Shiraz University of Technology Summer School,* Shiraz, Iran

2013 Semester — Teacher assistant in undergraduate course **"Microcontrollers",** *Shiraz University of Technology*, Shiraz, Iran

Awards and Honors

Since 2020 — Member of Young Researchers and Elite Club

Publications

Work-in-Progress — Detecting Caravansaries in Satellite Images Using Deep Learning-Based Image Processing, **MH. Salari,** MA Shaygan, F. Faraji

Improving SMS Spam Detection in the Persian Language by Providing a Comprehensive Database of Persian SMS **MH. Salari,** MA Shaygan

Languages

Farsi: Native
English: EF SET English Certificate 82/100 (C2 Proficient)