

Farbod Siahkali

<https://linkedin.com/in/Farbod-Siahkali>

<https://github.com/Farbod-Siahkali>

farbodsiahkali80@gmail.com | +98-912-026-7767

SKILLS

PROGRAMMING

Python and Jupyter-Notebook
Matlab, C, C++, Verilog

MACHINE LEARNING TOOLS

Scikit-learn, Pytorch
TensorFlow, Keras, Pandas
Numpy, Matplotlib, OpenCV
Regression
K-Nearest Neighbors

SOFTWARE TOOLS

LaTeX
Tensorboard
Git and Github
MS Office

EDUCATION

BACHELOR OF ELECTRICAL ENGINEERING

UNIVERSITY OF TEHRAN - GPA
3.79/4.0
Sep 2019 - Present | Tehran, Iran
Specialized in control engineering.

DIPLOMA OF MATHEMATICS

SALAM HIGH SCHOOL - GPA
3.89/4
June 2016 - Sep 2019 | Tehran, Iran

ENGLISH COURSE

IRAN LANGUAGE INSTITUTE
June 2011 - Sep 2017 | Tehran, Iran
Graduated with Overall score
84.2/100.

VOLUNTEER

- Member of ECE Educational Committee at University of Tehran in order to improve the learning experience of current and future students.

EXPERIENCE

NEURAL NETWORKS AND DEEP LEARNING | RESEARCHER IN TAARLAB: HUMAN AND ROBOT INTERACTION LABORATORY May 2021 – Present | Tehran, Iran

- Implementing deep convolutional neural networks for person-Reid, attribute recognition, and attribute retrieval tasks.
- Implementing human detection and tracking models.

TEACHING ASSISTANT | TEACHING ASSISTANT AT UNIVERSITY OF TEHRAN

Sep 2020 – Present

- Engineering Mathematics | Fall 2021 | Dr. M.Tale Masouleh.
- Electronics I | Fall 2021 | Dr. Sanaei.
- Engineering Mathematics | Spring 2021 | Dr. Taheri.
- Introduction to computing systems and programming | Fall 2020 and Fall 2021 | Dr. Moradi.
- Introduction to Electrical engineering | Spring 2021 | Dr. Samimi.

PROJECTS

IRANIAN VEHICLE TRACKING AND RECOGNITION | AUG 2022

- Proposed SIVD: Scraped Iranian vehicle dataset. Implemented a tracking and recognition using Yolov5 and OSnet.

DUKEMTMC DATASET ANNOTATION | DEC 2021

- Proposed Categorical Attribute DukeMTMC(CA-Duke) which is an extension of DukeMTMC-reID dataset with 76 attributes for over 32,000 train and test images.

ATTRIBUTE RECOGNITION/RETRIEVAL | DEC 2021

- Developed a multi-branched model for the task of attribute recognition on the CA-Duke dataset without affecting the weights of the Re-ID baseline.

PERSON RE-ID | DEC 2021

- Improving the results of the pre-trained person re-identification network (Omni-scale) using multiple re-ranking methods on the network's Re-ID and attribute recognition features.

FASHION RECOMMENDATION SYSTEM | FEB 2022 - PRESENT

- Web scraping online fashion stores and developing a recommendation system using ranking methods.

INPUT IMAGE OPTIMIZATION | DEC 2021

- Optimizing a convolutional neural network's input based on a specific target in order to visualize the network's concept of the target.