Farbod Siahkali

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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 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 other computer vision tasks.
- Implementing object detection/segmentation 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

DUKEMTMC DATASET ANNOTATION | Dec 2021

- Proposed Categorical Attribute DukeMTMC(CA-Duke) dataset 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 Re-ID baseline.

PERSON RE-ID | Dec 2021

- Improving the results of the Omni-scale (OSNet) framework 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 distance metrics.

INPUT IMAGE OPTIMIZATION | Dec 2021

- Optimizing the neural network's input image based on an specific target in order to visualize the networks concept of the target.