Tanseef **Shahid**

AI Developer

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"Looking for a research position where I can utilize my learned skills to develop and improve computer vision algorithms and enhance my abilities through new challenges."

Summary

Innovative Computer Vision developer with 2 years of experience in application design, development, testing and deployment. Well experienced in writing codes and algorithms as well as building complex neural networks through various programming languages. Posses an unbridled passion for Artificial Intelligence with comprehensive knowledge of computer vision concepts and other related technologies. Distinguished abilities to identify, understand, and translate program requirements into substantial, advanced technical solutions through python and C++ for continuous improvement of AI technologies.

Research Interests

Computer Vision, Deep Learning, Artificial Intelligence
(Object detection,Object tracking,Re-Identification, Image Segmentation , Image classification, Generative Adversarial Networks)

Experience

ELLEXI *Seoul, Korea*
AI Developer *Nov. 2019 - Nov. 2021*

- **Safety Equipment Detection:** Developed an AI model for construction worker's safety equipment (hard hat and Vest) detection. It also tracks worker's location to keep them out of dangerous zone on the construction site.
- Installed and configured YOLOv3 for real time on Jetson TX2 to deploy project on the construction site.
- **Automatic License Plate Recognition:** Developed an AI model for Korean car's license plate recognition for gas station.
- **Boiler Plate Text Recognition:** Developed a boiler plates text recognition module utilizing tesseract-ocr and OpenCV.
- Implemented an algorithm which Generates fake license plates image data for ocr training utilizing OpenCV and python.
- Created an AI-based labelling tool to label real image datasets of construction workers and Korean cars license plates.
- Assisted in various computer vision projects: i.e., abnormal behaviour detection, action detection, person tracking
- Experience working with and understanding of fundamentals of established OpenCV algorithms, such as image augmentation, image segmentation, color detection, video processing etc.

Education

CAU(Chung-Ang University)(www.cau.ac.kr) *Seoul, South Korea*
M.S. in Computer Science (Application Software) *Mar. 2017- Sep. 2019*

- **Thesis Title:** Object Segmentation with Active Contours Driven by Weight Matrix
- **Research Areas:** Active Contours, Image segmentation.Object detection and tracking
- **Project:** Object detection and tracking with UAV (drone) in real time.

GIKI(Ghulam Ishaq Khan Institute of Engineering Sciences and Technology)(www.giki.edu.pk) *Topi,Pakistan*

B.S. in Electronic Engineering *2011-2016*

- **Final Year Project:** Smart Blind Navigation System

  The project was aimed at helping the visually impaired people in walking, identification of familiar faces and navigate places using Raspberry pi, camera and GSM module in OpenCV algorithms.

Technical Skills

Programming

Python, C/C++, Linux, MATLAB programming, Assembly, LaTeX

Computer Vision

Tensorflow, Pytorch, Darkent, Keras, OpenCV (python)

Packages

Docker, Git, Numpy, Pandas

Others

Technical English Writing

Academic Achievements

CAYSS Scholarship:

Won Chung Ang Young Scientist Scholarship for my masters degree.

FYP Competition:

Secured Second position in the final year project competition in bachelor's.

Selected Publications

Masters

- A Munir, S. Soomro, **M.T. Shahid**, T.A. Soomro, K.N. Choi. "Hybrid active contours driven by edge and region fitting energies based on p-Laplace equation", IEEE Access (2019).
- Kim, D. D., **M.T. Shahid**, Kim, Y., Lee, W. J., Song, H. C., Piccialli, F.,Choi, K. N. (2019, November). "Generating Pedestrian Training Dataset using DCGAN". In Proceedings of the 2019 3rd International Conference on Advances in Image Processing (pp. 1-4).
- Memon, Asif Aziz, Shafiullah Soomro, **M.T. Shahid**, Asad Munir, Asim Niaz, and Kwang Nam Choi. "Segmentation of Intensity-Corrupted Medical Images Using Adaptive Weight-Based Hybrid Active Contours". Computational and Mathematical Methods in Medicine 2020 (2020).

Master's Thesis

- Object Segmentation with Active Contours Driven by Weight Matrix, 131th Master's Thesis, Chung-Ang University.

Extracurricular Activities

Play football, badminton and video games.

Watch football and movies.

Love travelling and hiking.