UTKARSH VERMA

Phone: +91 94526 74383 ◇ Web: utkarshvermaa.github.io ◇ Email: utkarsh.amrev@gmail.com

EDUCATION

Delhi Technological University **2019**
B.Tech, Electronics and Communication Engineering *7.88 CGPA*
Kendriya Vidyalaya, Allahabad **2014**
AISSCE(XIIth) *89.4%*
Sanskaar International School, Allahabad **2012**
AISSE(Xth) *9.2 CGPA*

SKILLS

Programming Languages	C/C++, Python, MATLAB, SQL
Python Libraries	PyTorch, Tensorflow, Keras, OpenCV, Scikit-Learn, Pandas
Software & Tools	Jupyter Notebooks, Anaconda, Docker, Git, VSCode, Octave

INTERNSHIP

CSIR-CEERI, Pilani Jun - Jul 2018
Research Trainee under ***Dr. S. A. Akbar, Chief Scientist****, CSIR-CEERI*

Implemented the state-of-the-art deep neural network architecture for Image Super-resolution and Enhancement on a dataset of 800 high-resolution images.
Identified the shortcomings in conventional super-resolution techniques which improve the Peak Signal-to-Noise Ratio only and researched for metrics to state a *perceptually super-resolved* image.

PROJECTS

Image Style Transfer using CNNs Jan 2019

Built a neural network architecture to perform Image Style Transfer from a style image to content image. A VGG19 net pretrained on ImageNet dataset and performed transfer learning with *style transfer loss*.

Image super-resolution with Perceptual Quality Retention Aug - Nov 2018

Built a Deep Neural Network with modified loss function and architecture in order to keep the perceptual quality of the image intact along with improving the peak signal to noise ratio (PSNR).

Computer Vision based Pick-Up Bot Nov 2016 - Mar 2017

Built a Computer Vision based Automated Robot System was programmed to pick objects that could be differentiated by color and shape and deliver them to their corresponding destination signified by the same shape and color.

AWARDS & ACCOLADES

1st Runner Up, Smart India Hackathon 2018 Apr 2018
World's Largest Hackathon - 1L+ Participants
2nd Runner Up, Fintech Innovation Hackathon Sep 2017
DCB Bank
Delhi State Representative, Swachhathon 1.0 Sep 2017
Ministry of Drinking Water and Sanitation, Govt. of India
Finalist, E-Yantra Robotics Competition Mar 2017
IIT Bombay

RELEVANT MOOCS TAKEN

Convolutional Neural Networks for Visual Recognition (CS231n) Stanford University
5-course specialisation in Deep Learning Deeplearning.ai
Intro to Deep Learning with PyTorch Udacity
Advanced Python for Machine Learning (DSE200x) UCSanDiego