

Projects

- Deep Neural Network from Scratch** 2019
 A Deep neural network created from scratch i.e. without the use of any Machine Learning/Deep Learning library or framework and just using the pure mathematics and numpy (python library for mathematical calculations and matrix manipulations).
 Github Repository [link](#)
- Neural Style Transfer** 2019
 NST is a Deep Learning based Image Fusion Technique which recreates a *Content Image* in the composition of a *Style Image*. Implemented using Keras (Tensorflow backend)
 ** Extended the program to run on videos too.
 ** PyTorch Backend (*under progress*)
 Github Repository [link](#)
- filterV** 2020
 A Python pypi-package to study/visualize the effects of filters applied to an image in Convolutional Neural Network.
 pypi [link](#) | Github Repository [link](#)
- mah-rio** 2019
 An autonomous Super Mario game-bot created using Genetic Algorithm wrapped around NeuroEvolution of Augmenting Topologies (NEAT-python)
 Github Repository [link](#)

Education

Bachelor of Technology – Electronics and Communication 2017 - Present

Bhagwan Parshuram Institute of Technology, Indraprastha University, New Delhi

- Current Aggregate (up to 2nd year) : 66%
- Annual Fest Technical Team member - 2018, 2019

Higher Senior Secondary | 12th Standard 2015 - 17

CBSE - Vivekanand School, New Delhi

- Secured 78.2%
- Won District Level Football Tournament - 2016
- Won English Debate Competitions, Treasure Hunt, Article Writing, Poetry Writing

Senior Secondary | 10th Standard 2002 - 15

CBSE - St. Thomas School, Ghaziabad, U.P

- Secured 10 CGPA
- Won the State Level CBSE Science Exhibition – 2014, Taekwondo Tournaments, Volleyball/Kho-Kho Tournament – 2014, English/Hindi Debate Competitions, Article Writing, Story Writing, School Level Science Exhibition – 2013, 2014

Technical Skills

Deep Learning

Deep Neural Networks
 Convolutions NN
 Keras (Tensorflow)
 PyTorch

Machine Learning

Linear Regression
 Logistic Regression
 Decision Tree
 Random Forest

Python

Object-Oriented Programming
 Data Structures and Algorithms
 Flask, Tkinter (GUI)
 OpenCV

Data Science

Data Analysis
 Data Visualization
 Data Engineering