KAUSIK NARAYANAN

@ https://kausikn.github.io/ @ nkausik1999@gmail.com @ coe17b010@iiitdm.ac.in @ www.linkedin.com/in/kausik-n-7a9800170/
+91 8056006672 Chennai,India

EDUCATION

B.Tech Computer Engineering(Honours)

Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram

2017-Present

CGPA-9.37

XII(Senior Secondary),Science

Sri Sankara Senior Secondary School, Adyar

2017

Year of Completion: 2017

CBSE Board

Percentage : 95.00

INTERNSHIPS

Raster to Vector Image Conversion

SPi Technologies Pvt Lt

May 2020 - Ongoing

Guide: Mrs. K Sivaselvi

Analysed manual methods for conversion

Understood tracing and segmentation algorithms

Developed a automated flow for conversion

Implemented algorithms and flow using Python

Evaluated output accuracy for vectorization of logos

Development of SparkAR Filters

Avataar.me

May 2019-July 2019

Team Lead: Mr.Siddartha Denamsetti

Understood client communicated needs and ideas for filter

Understood graphical concepts and scripting concepts for development of Spark AR Filters for Facebook and Instagram

Collaborated and Developed over 4 separate filters and contributed to several other filters for clients and deployed in Facebook and Instagram platforms

Augmented Reality for Education

eBramha Inc.

December 2018

Mentor: Mr.Murali Ganesan

Researched about upcoming technologies including AR/VR

Understood development of AR products in Unity software

Developed AR application for education for enhancement of text books using AR

RESPONSIBILITIES

Junior Coordinator for CS Club

2018-2019

Coordinator for CS Club

2019-2020

Coordinator for ATAL Data Science workshop

2020

TECHNICAL SKILLS AND COURSES

Python | C/C++ | iVerilog | ARMSim | C# | HTML/CSS | Javascript | LaTeX | Spark AR | Unity | Android Studio | Blender | AutoCAD | Big Data | Image Processing | Computer Vision | Deep Learning | Algorithm Design | Networks | SQL

MAJOR PROJECTS

Statistical Masking in BERT

Nov 2020 – Ongoing

Researching about Google's BERT model for Transfer Learning based NLP neural network training. Also developing improvements related to masking aspect of BERT model and evaluating improvements.

GAN Fingerprint Analysis

Feb 2020 – May 2020

Researched GAN fingerprint analysis for detection of fake images and checking image authenticity. Implemented ProGAN, CramerGAN, SNGAN and MMDGAN along with fingerprint analysis network. Trained analysis network and tested on pretrained GANs network results.

Attacking Neural Networks

Aug 2019 – Nov 2019

Researched mechanisms for attacking and defending neural networks to make them perform incorrectly in situations like self driving cars. Developed a combined defense method to protect neural networks from attacks.