KAUSIK NARAYANAN

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Chennai,India

EDUCATION

M.Tech Computer Science and Engineering

Indian Institute of Technology, Madras

2021-Present

B.Tech Computer Engineering (Honours)

Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram

2017-2021

CGPA-9.46

XII(Senior Secondary),Science

Sri Sankara Senior Secondary School, Adyar

2017

Year of Completion: 2017

CBSE Board

Percentage : 95.00

INTERNSHIPS

Security Development

Ericsson

Jan 2021-July 2021

Mentor: Mr.Balaji Kesavan

Assissted in development and testing of security components in networks

Raster to Vector Image Conversion

SPi Technologies Pvt Lt

May 2020 - Sep 2020

Guide: Mrs. K Sivaselvi

Developed a workflow for automating image to vector conversions

SparkAR Filter Development

Avataar.me

Aug 2020-Nov 2020

Team Lead: Mr.Siddartha Denamsetti

Collaborated and Developed Instagram and Facebook filters

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

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

MAJOR PROJECTS

Statistical Masking in BERT

Nov 2020 – June 2021

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.