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Education

Vellore Institute of Technology, Chennai - B.Tech Computer Science & Engineering   Class of 2020

Experience

Teaching Learning Centre @ Indian Institute of Information Technology, Design & Manufacturing
Internship   Present
Fabric Inspection system - Detecting, classifying and locating fabric defects from live camera feed and suggesting corresponding remedial measures in the textile industry implemented using a machine learning solution to automate the process.

Airports Authority of India
Internship   December 2018 - Present
• Developing a machine learning solution for a dynamic roster system to manage shifts of air traffic controllers.
• Designing and implementing a web GUI for employees and administrators as an accessory to view and manage their workflow using HTML5, CSS, JavaScript (client side), and Django & MySQL (server side).

Research @ Vellore Institute of Technology, Chennai   Present
• Designing and implementing an attention layer mechanism for a U-Net model to detect brain tumour areas in images of brain scans under mentorship of Dr. Karthik R.
• A machine learning solution for classifying photos taken from different smartphones, categorically and individually based on a siamese neural network model, under mentorship of Dr. Bharati Raja.

Research Science Initiative @ Indian Institute of Technology, Madras
Summer Research Fellow   May 2015 - July 2015
• A comparative analysis of the protein interaction networks of mycobacterium tuberculosis, mycobacterium leprae and mycobacterium smegmatis using Python, STRING & BLAST, under mentorship of Dr. Karthik Raman.

Projects

Face Recognition & Filters
• Developed a GUI based application that achieves accurate live face detection, recognition and application of filters on live feed of people's faces. Built using OpenCV and face_recognition libraries in Python.

Error Detection & Correction
• Developed a header file in C that implements conventional error detection and correction code algorithms including simple parity check, hamming codes, cyclic redundancy check and checksum.

Ambulance on-the-go (ongoing)
• Developed a web-app prototype @Hackference India, 2018 to aid the emergency helpline process to locate, track ambulances and assign it to a patient in need, using HTML5, CSS, JavaScript, Google Maps API & Firebase.

Leadership

Public Relations Head, IEEE Computer Society Student Branch Chapter @ VIT Chennai
• Responsible for networking and connecting the chapter with industrial and academic influence.
• Organising public and intra-college events to promote computer science among members.
• Marketing and maintaining social media handles - LinkedIn company page & Instagram.

Certifications & Courses

• Introduction to Python for Data Science by Microsoft, edX.
• Machine Learning by Stanford, Coursera
• Datacamp Skill Tracks - Python Programming