Aayush Shrestha

Electronics Undergraduate, Vellore Institute of Technology, Vellore

Highly organized, enthusiastic, hardworking individual always eager to learn about new technologies and looking for a responsible position to apply current skills required to achieve the interpersonal goals of the company.



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EDUCATION

B.Tech, Electronics and Communication Engineering

Vellore Institute of Technology, Vellore

07/2018 - Present

Current CGPA- 8.65

12th Standard , 10th Standard Loyola School Jamshedpur

04/2004 - 06/2018

ISC - 86.75%, ICSE- 92.2%

ACADEMIC PROJECTS

Cryptographic algorithms used in the defence sector

 Detailed comparison between AES and DES and also performing file encryption and image encryption using the best algorithm obtained.

3D Modelling of Sentinel Robot Using ROS

 Made our very own levitating sentinel robot from the movie Matrix with autogenerating tentacles using ROS and Gazebo simulator. Also used Blender app for the 3D modelling of the robot to give it a more realistic view.

Configurable Password based Door lock System using 8051 Microcontroller

 Based on providing security using configurable password system to the traditional mechanical door lock systems which are used.

Experimental design of Home Automation using IoT

 Automation of home appliances using our smartphone through Wifi and the Blynk App.

Self Stabilizing platform Using Arduino, MPU-6050

 This platform will help old aged people to get a firm grip on objects. It is also used in surgery and camera stabilizing platforms.

Electromyogram Signal Analysis Using MATLAB

 EMG signal analysis is used for the detection of any disorder in the skeletal muscles. In this project, we pass the EMG signals of 3 patients, healthy patient, myopathic patient and neuropathic patient and observe the change in the signals produced for identifying the type of disorder.

WORK EXPERIENCE

Electronics Intern

Tata Steel Private Limited

06/2021 - Present

Jamshedpur (Work From Home)

Achievements/Tasks

 Working on a project "Study of battery 8 & 9 Level 1 System" of the Coke Plant at Tata Steel and completed Electronics modules on PLCs, Induction Motor, Control Systems and Power Systems.

Contact: Dr. Manoj Kumar - +91 9204651685

TECHNICAL SKILLS

Electronics, IoT, Sensors, Microcontrollers

Computer Architecture, Control Systems, Neural Networks

JAVA, C/C++, Python, MATLAB, R

Data Analysis, Visualization, Machine Learning







ACHIEVEMENTS

Quanta Hacks, Stem For Fem (01/2021 - 01/2021)

Won the second overall with an amazon gift card.

Holiday Hacks by MLH (12/2020 - 12/2020)

Won the third overall and also recognized by VIT as Special Achiever for winning in the hackathon.

Shark Hacks by MLH (12/2020 - 12/2020)

Won the best hardware hack among 200 international participants.

PUBLICATIONS

Comparative Analysis and Implementation of Heart Stroke Prediction using Various Machine Learning Techniques (05/2021 - 07/2021)

Accepted and published by IJERT in Volume 10, Issue 6 (June 2021)

Experimental Implementation of Covid'19 Safety Measures in Ride Sharing Cabs using Deep Learning and Internet of Things- Springer (02/2021 - 06/2021)

Detection based web application for safety of passengers in ride-shares

Experimental Design and Implementation of Fingerprint based Exam Hall Authentication system with Temperature sensing and analysis using Internet of Things (08/2020 - 12/2020)

Accepted and presented at IEEE ICPS conducted by ACRS, IIT Madras virtually. DOI: https://doi.org/10.1109/ICPS51508.2020.00012

CERTIFICATES, EXTRA-CURRICULURS

R Programming - Offered by VIT University Grade obtained: 90/100

Linear Circuits: AC Analysis, Sensor Circuits and Design, Electrodynamics

Offered by Coursera

Participated in several hackathons like Hack SRM, Hack Off V3.0 and GovTechThon

INTERESTS

IoT Data Science

Microcontrollers

Music