

Tanisha Rakshit

Electronics Engineer, Vellore Institute of Technology, Vellore

Highly organized and hardworking individual looking for a responsible position to apply current skills required to achieve the interpersonal goals of the company.



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WORK EXPERIENCE

1.Coordinator and Volunteer

SEDS VIT CHAPTER

Dec 2018-present

2.Data Analytics Intern

SUVEN CONSULTANTS AND TECHNOLOGY PRIVATE LIMITED

Oct2020-Nov2020

Worked on 2 projects in 2 weeks:

- 1.Performing Analysis of Meteorological Data
2. Recognizing Handwritten digits using Scikit-Learn

3.Data Science and Business Analytics

THE SPARKS FOUNDATION

Oct2020-Nov2020

Worked on:

- 1.Simple linear regression to find out the relationship between the marks scored by 10 students and the number of hours studied by them and then predict the score obtained.

4.Digital Media Marketing and Campus Ambassador

HAMARI PAHCHAN NGO

Sept2020-Nov2020

Worked to raise funds for the NGO, make posters, spread awareness of various campaigns, etc.

EDUCATION

Bachelor of Technology(B.Tech)

Vellore Institute of Technology, Vellore

Courses: 2018-present

Electronics and Communication Engineering (ECE) CGPA 8.97

XII(Senior Secondary)

Delhi Public School Ruby Park, Kolkata

Courses: 2016-2018

Pure Science (PCMB) Percentage: 93.4%

X(ICSE)

Delhi Public School Megacity, Kolkata

Courses: 2004-2016

Pure Science +Computer Percentage: 97.6%

SKILLS

1.Software: (proficient) C++, Python, C, Java, HTML, CSS, MATLAB
(familiar) ROS, Blender, JavaScript, R, SQL

2.Hardware: Keil, Cadence, Verilog, Multisim, PCB Design, Arduino, Proteus, Simulink, Embedded C

3.Tools: Cisco Packet Tracer, Node-RED, IFTTT, Thingspeak, IBM Watson, Firebase, GoDaddy, Outsystems, Github, Dialogflow

4.Packages: Tensorflow, keras, OpenCV, pygame, streamlit, tkinter, scikit-learn, Numpy, Pandas

PROJECTS

1.Self Stabilizing Platform using Arduino and MPU-6050

The idea behind the project is that many old aged people suffer from tremors. This platform will help them to get a firm grip on objects. It is also used in surgery and camera stabilizing platforms.

2.Crystal Tester circuit

Crystals are used in any important electronic components. This circuit is used to test the working of the crystal using a LED.

3.Password Based Door Lock System using 8051

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

4.Home Automation using IOT

Automation of home appliances using our smartphone through WIFI and Blynk.

5.Electromyogram Signal Analysis using Matlab

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

4.3D Modelling of Sentinel Robot using ROS, Gazebo and Blender

Made our very own levitating sentinel robot with auto regenerating tentacles using ROS and Gazebo simulator. Used Blender for the 3D modelling of the robot to give it a more realistic look.

6.Cryptographic algorithms used in the Defence Sector

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

7.Customer Car


An AI based detection web application for ride sharing companies like Uber and Lyft integrated with 3 detections, whatsapp api, login and about us page.


PUBLICATION


1.Experimental Design and Implementation of Fingerprint Based Exam Hall Authentication System with Temperature Sensing and Analysis using Internet Of Things


Presented at International Conference on Interdisciplinary Cyber Physical Systems, organized by ACRS IIT Madras with IEEE conference record number 51508, Paper ID No-13.


ACHIEVEMENTS

 **HACK YOUR PORTFOLIO, BY MLH, JAN 2021**
Won the third overall prize among 302 international participants.

 **TECH TOGETHER SEATTLE, JAN 2021**
Won the best AI Hack sponsored by AI For Everyone among 285 participants.

 **HOLIDAY HACKS, BY MLH, DEC 2020**
Won the third overall prize among 495 international participants.

 **WHO WANTS TO BE A HACKIONAIRE, BY MLH, NOVEMBER 2020**
Won the third overall prize among 244 international participants.

 **IEEE RAS REBOOT 2.0, MARCH 2020**
Won the best girls team award among 120 shortlisted participants.

CERTIFICATES

1.Data Science Certificates and Certified Badges from IBM-COURSERA

The courses were offered through Coursera where I developed skills in Python, Data analysis, Databases and SQL required for Data Science.

2.CRASH COURSE ON PYTHON-COURSERA

Offered by Google and got to learn about the basics of python programming.

3.DATA STRUCTURES-COURSERA

Offered by UC San Diego and got to learn about trees, lists, time complexities, etc.

4.THE WEB DEVELOPMENT BOOTCAMP 2020- UDEMY

STRENGTHS

Hardworking

Learner

Listener

Team Work

Reliable

Problem Solver

ROLES AND RESPONSIBILITIES:

- 1.Active participant in several workshops that took place during our college tech fest, **Gravitas 2018**, like **Game Development using Unity 3D, Augmented Reality, Star Party.**
- 2.Active participant in several inter and intra college hackathons like **Hack SRM 2.0, HACK OFF V3.0, GovTechThon 2020 sponsored by Oracle, IEEE and NIC.**
3. Organized national hackathon, **ASTRA 2019**, for my chapter, SEDS VIT where participants came from all over India and Sri Lanka and the winners were selected based on the problem statements made by us.
4. Active participant in **LOCAL DAY HACKS by MLH.**

HOBBIES



ART



TRAVEL



MUSIC

INTERESTS

Web Development

Computer Vision

Microcontrollers

Internet of Things