

# TANISHA RAKSHIT

Electronics and Communication Engineering, Vellore Institute of Technology

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## EXPERIENCE

### Machine Learning Intern

Indian Institute of Technology, Indore



January '22-February'22

- Learnt about the machine learning models
- Worked on stock prediction project

### Electronics Intern

Tata Steel Private Limited, Jamshedpur



May'21-August'21

- Undergone vocational training and completed E-Learning modules on PLCs, Induction Motors, Instruments and Control Systems

### Data Analytics Intern

Suven Consultants and Private Limited, Mumbai



October'20-December'20

- Performing Analysis of Meteorological Data
- Recognition of Handwritten Digits using scikit-learn

## PROJECTS

### Heart Stroke Prediction using Machine Learning

- Predictive modelling along with data visualization and data analysis applied to obtain heart stroke prediction using various machine learning algorithms.

### Ride Safe

- Detection based web application for ride sharing companies implemented using Deep Learning and Internet of Things.

### Safety Before Exam

- Fingerprint Based Exam Hall Authentication system with temperature sensing of the student with an alert mechanism implemented using Atmega microcontroller and IoT.

### IoT Based Gas Leakage Detector

- Used the IoT Gecko platform to display immediate alerts in case of high gas levels along with auto exhaust fan and valve system to mitigate high levels.

## TECHNICAL SKILLS

**Primary Skills-** Java, OOPs, Computer Networks, Computer Architecture, Operating Systems, IoT

**Secondary Skills-** SQL, Data Analysis, Machine Learning, Cloud Computing, Data Structures

**Tools Used-** Microsoft Office, Microsoft Power BI, Microsoft Azure, Thingspeak, IFTTT

## EDUCATION

### B. Tech, Electronics and Communication Engineering

Vellore Institute of Technology, Vellore



July'2018-July'2022

- CGPA - 9.07

### 12th Standard, 10th Standard

Delhi Public School, Kolkata



July'2015-July'2018

- AISSCE - 93.4%
- ICSE - 97.6%

## ACHIEVEMENTS

- Quanta Hacks, Stem for Fem - *Won the second overall with an amazon gift card.*
- Chancellor's Special Achiever's Award – *Received from VIT University for exemplary performance in international competitions and academics.*
- Holiday Hacks by MLH - *Won the third overall and also recognized by VIT as Special Achiever for winning in the hackathon.*
- IEEE RAS Reboot 2.0 - *Won the best girls' team among 120 shortlisted candidates.*
- Merit AISSCE 2018, Merit Scholarship ICSE 2016, JEE Mains 2018 qualified (among the top 6%) - *Second overall in school in ICSE and Scholar Badge Holder in AISSCE*
- Coordinator and Volunteer at SEDS VIT- *Organized events and hackathons related to astronomy and robotics*

## CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals
- Java Foundations from Geeks for Geeks
- Power BI for Beginners from Simplilearn
- SQL (Basic) from Hacker Rank

## PUBLICATIONS

Comparative Analysis and Implementation of Heart Stroke Prediction using Various Machine Learning Techniques - <https://www.ijert.org/comparative-analysis-and-implementation-of-heart-stroke-prediction-using-various-machine-learning-techniques>

Experimental Design and Implementation of Fingerprint based Exam Hall Authentication system with Temperature sensing and analysis using Internet of Things DOI: <https://doi.org/10.1109/ICPS51508.2020.00012>