

AMAN VERMA

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EDUCATION

B.E. (Electronics and Telecommunication Engineering)	2020-2024	Vivekanand Education Society's Institute of Technology, Chembur	9.02 / 10 CGPA
Minor (Artificial Intelligence and Machine Learning)	2022-2024	Vivekanand Education Society's Institute of Technology, Chembur	Passed
HSC (Class XII)	2020	New Horizon Public School, Panvel	81.6 %
SSC (Class X)	2018	Shantiniketan Public School, Panvel	79 %

SKILLSET(S)

Technical Skills: Python, Software Engineering, Software Testing, Docker, SQL, Database, Git, Microsoft Word, Microsoft Excel, Networking, Optical Communication.

Soft Skills: Collaborative Leader, Learning Agility, Self-Regulation, and Mindfulness

WORK EXPERIENCE

JSW Steel Ltd. (On Site Internship)

June 2023 – July 2023

Department: Electrical and Automation

- Gained hands-on experience in the **operations** and **maintenance** of a medium-scale Lime Calcination Plant.
- Experience in configuring **SCADA** systems to **collect, analyze, and visualize data** from various **sensors** and **instruments**.

PROJECTS

RailGuard: Train Safety System

- Developed an **IoT-based** Train Safety System using **ESP32** and **Blynk** for **real-time remote monitoring, anomaly detection, and proactive maintenance** alerts.
- Programmed** and implemented an **ESP32** microcontroller to drive a **four-wheel bot**, enabling real-time remote control functionalities
- Designed and **developed software** capable of **detecting and notifying** about anomalies in railway tracks using sensors and GSM wireless communication. This system **sent instant notifications** to designated recipients via the **Blynk application**, ensuring prompt hazard mitigation measures and **centralized monitoring** of train conditions.

DNA Classification using Machine Learning

- Developed a robust **machine learning** model for classifying DNA sequences, focusing on identifying disease-associated mutations within human genomic data
- Implemented advanced **feature extraction** methods to handle the diversity in DNA sequences.
- Utilized **Google Colab** for scalable implementation, enhancing the **model's capability** to process large **genomic datasets** and contributing to advancements in personalized **medicine and genetic research**.

Multiplier using Carry Look Ahead Adder

- This project aims to provide the **faster adder circuit** implemented on **FPGA Spartan-3A board Elbert V2**.
- It reduces the **propagation delay**, that occurs during addition, by using more complex hardware circuitry.
- It is designed by transforming the ripple-carry adder circuit such that the carry logic of the adder is changed into two-level logic.

Fire Fighting Robot

- Developed an intelligent fire-fighting robot using **STM-32** microcontroller, capable of **detecting and extinguishing fires autonomously** with a flame sensor and water pump system.
- Utilized **Arduino IDE and STM-32 programming** to create and implement **algorithms** for **robot movement, fire detection, and water spraying mechanisms**, enhancing the robot's responsiveness and reliability in fire scenarios.
- Successfully integrated **ultrasonic and flame sensors** with **STM-32** for **obstacle detection** and fire source identification, ensuring accurate and efficient fire-fighting operations.

CERTIFICATIONS

- Software Engineer Intern (HackerRank)
- Python for Software Engineering Bootcamp (Udemy)
- Complete Codecamp on Python Programming (Udemy)
- Introduction to Cloud Computing (Coursera)

ACHIEVEMENTS

- Software Engineer Intern (HackerRank: Passed)
- VESIT Premier League'24 (Intra Football Tournament): Achieved Runner-Up Position.
- DSO Cricket Tournament'19: Achieved Runner-Up Position.