

# VARDAN MITTAL

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## ABOUT

I'm someone who thrives on exploring new technologies and solving complex issues. With a passion for learning, I approach tasks with discipline and determination, aiming to apply my skills across various domains. I'm driven by a constant desire to innovate and push the limits of what can be achieved.

## EDUCATION

**Sardar Vallabhbhai National Institute of Technology**  
Bachelor of Technology(B.Tech) in Mechanical Engineering

CGPA: 8.78/10  
Expected Graduation: 2024

## INTERNSHIP

**Reliance Industries Limited**  
Summer Internship

May 2023 - Jul 2023  
*Vadodara, Gujarat*

- Worked on the project for **Enhancement of Fabrication Hub Area**, overseeing the implementation of proper welding shields, layout development, and fabrication shop standard arrangement.
- Conducted comprehensive analysis of fabrication hub work cycles, identifying key productivity challenges and bottlenecks.
- Developed strategic solutions that led to a significant increase in fabrication hub productivity, resulting in a remarkable **20% boost in overall industry profits using my TQM knowledge and Data Analytics**.

## PROJECTS

**RAKSH-An Autonomous Pesticide Spraying Robot**  
Robofest 3.0, GUJCOST

Dec 2022 - Present

- Currently working on "RAKSH," an autonomous pesticide spraying robot capable of navigating fields and selecting from 10 different pesticides based on specific crop requirements.
- Led the implementation of embedded systems using **ESP32, Raspberry Pi, and Jetson Nano** for robust control, while integrating electrical components.
- Developed a **CNN-based disease detection** algorithm for precise pesticide selection, utilized computer vision for symptom identification, and implemented **SLAM** for navigation
- Utilized **ROS** for simulation and testing, ensuring RAKSH's efficacy in real-world agricultural applications.

## SKILLS

<b>CS Fundamentals</b>	Data Structure & Algorithms, Object-Oriented Programming
<b>Programming Languages</b>	Python, C, C++, JavaScript, MATLAB, Arduino
<b>Technical Skills</b>	Machine Learning, Deep Learning, Data Analytics, Computer Vision, Natural Language Processing
<b>Frontend</b>	HTML, CSS, JavaScript, React.js, Bootstrap
<b>Backend</b>	Flask, Node.js, MongoDB, SQL, Express.js
<b>Softwares</b>	Power Bi, Microsoft Excel, Robot Operating System, AutoCad
<b>Hardwares</b>	Jetson nano, Esp32, Raspberry Pi
<b>Soft Skills</b>	Communication, Adaptability, Listening, Problem Solving

## POSITION OF RESPONSIBILITY

**Head of AI/ML Department**

Sep 2022 - May 2023

Google Developer Student Club, SVNIT

*Surat, Gujarat*

- Successfully organized and led a dynamic hackathon event, **Hack the Tank** attracting participation from over 70 teams.
- Conducted an introductory Machine Learning workshop, providing beginners with foundational insights into the field's principles and applications.

## EXTRACURRICULAR ACTIVITIES

<b>Blogs</b>	Published two comprehensive blog discussing <b>applications of game theory</b> and <b>James Webb Space Telescope</b> in expanding our knowledge of the cosmos
<b>Seminar</b>	Deliver a seminar on <b>Wire E.D.M Prediction Model</b> using Machine Learning

## LANGUAGES

<b>Languages</b>	English, Hindi, Pursuing A1 in German
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## CERTIFICATIONS

Google Data Analytic Professional Certificate, Machine Learning Specialization

Coursera