VARDAN MITTAL

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Email ◇ Linkedin ◇ Github

EDUCATION

Bachelor of Technology(B.Tech) in Mechanical Engineering   CGPA: 8.78/10
Sardar Vallabhbhai National Institute of Technology   Expected Graduation: 2024
Relevant Coursework: **Mechatronics, Robotics and Data Analysis**

Higher Secondary Certification   Aggregate Score: 81.2%
Rajni Public School, Dibai, Bulandshahr   Year of Completion: 2018

Senior Secondary Certification   CGPA: 8.8/10
Rajni Public School, Dibai, Bulandshahr   Year of Completion: 2016

SKILLS

Programming Languages	Python, C, C++, JavaScript, SQL, MATLAB, Arduino
Technical Skills	Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Embedded System Programming, MERN Stack Development, Docker, Power BI, Microsoft Excel
Soft Skills	Communication, Adaptability, Listening, Problem Solving

INTERNSHIP

Reliance Industries Limited   May 2023 - Jul 2023
Summer Internship   *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.**

PROJECTS

RAKSH-An Autonomous Pesticide Spraying Robot   Dec 2022 - Present
Robofest 3.0, GUJCOST

- 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.

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

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

LANGUAGES

Languages	English, Hindi, Pursuing A1 in German

CERTIFICATIONS

Google Data Analytic Professional Certificate, Machine Learning Specialization   Coursera