

# SAURABH YADAV

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## EDUCATION

- **National Institute of Technology, Silchar** Assam, India  
*B.TECH - Electronics and Instrumentation Engineering - CGPA: 8.6; SGPA:8.93* July 2023 - June 2027
- **Shiv Jyoti International school, Kota** Kota, Rajasthan  
*HSC ; Percentage: 91.80* July 2020 - June 2022
- **Sunbeam school, Mau** Mau, Uttar Pradesh  
*SSC ; Percentage: 94.80* July 2011 - June 2020

## EXPERIENCE

- **NIT-S Embedded and Robotics Development Society** Remote/Onsite  
*Junior member (Full-time)* May 2023 - July 2023
  - **Line follower robot** : Developed a fully automated line follower robot, integrating advanced sensors to achieve precise tracking with an accuracy of 1mm across diverse surfaces.:
  - **I gained hands-on experience with a variety of sensors, microcontrollers, and IOT systems, including their integration, programming, and application in real-world projects.:**

## PROJECTS

- **Tecnoesis NIT Silchar** Remote/Onsite  
*Self project* Nov 2024
  - Designed and developed a fully automated robot capable of detecting and following a predefined path using IR sensors.
  - Programmed microcontrollers (e.g., Arduino/ESP32) to process real-time sensor data and implement motor control for precise navigation.
  - Integrated hardware components, including DC motors, motor drivers, and sensors, ensuring efficient and accurate operation.
  - Technologies and Tools used - — Arduino, Arduino IDE, PIR, Tinkercad.

## SKILLS

- **Languages:** Python, C++, HTML, CSS, JavaScript
- **Data Science Tools::** Anaconda, Jupyter Notebook, NumPy, Scipy, Matplotlib , Tableau.
- **Tools:** Github, VS code, Arduino IDE
- **Programming and Simulation Tools:** Matlab , Simscape and Simulink.
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

## POSITION OF RESPONSIBILITY

- **NIT-S Embedded and Robotics Development Society** Onsite  
*Junior Member (Full-time)* May 2023 - July 2023
  - Selected among the top 30 out of 900 applicants through a competitive selection process.
  - Contributed to the club's technical projects and activities, collaborating with peers to enhance robotics innovation and problem-solving skills.

## CERTIFICATIONS

- **Drone Bootcamp** : Participated in Drone Training Program during under the project titled Capacity building for Human resource development in Unmanned Aircraft System (Drone related technology) Funded by MEITY Government of India, Conducted at the NIT Silchar, Assam.
- **Data Visualization: Empowering Business with Effective Insights Issued by Tata via Forage — June 22, 2024:** Completed practical tasks, including framing business scenarios, choosing and creating effective visuals, and communicating insights and analysis.

## HONORS AND AWARDS

- Awarded silver medal, Tecnoesis NIT Silchar - Nov, 2024
- Qualified for the National Level of the National Talent Search Examination (NTSE) : Selected among top students nationwide for this prestigious scholarship examination conducted by NCERT, recognizing academic excellence and problem-solving skills.
- Awarded the prestigious reliance undergraduate scholarship for academic excellence and potential.

## OTHER INTERESTS/EXTRACURRICULAR ACTIVITIES

- Volunteer at Gyansagar - a social service wing of NIT Silchar
- Junior executive at Illuminits - the official Literary, Publication and Fine Arts Society of NIT Silchar.
- cricket and Volleyball