Rishav Kumar

Bachelor of Technology in Automation and Robotics
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Education

•Bachelor of Technology in Automation and Robotics — 2022-25
UNIVERSITY SCHOOL OF AUTOMATION AND ROBOTICS Surajmal Vihar New Delhi — CGPA: 7.3

•Polytechnic In Mech Engineering — 2019-22
Rani Jhansi Laxmi Bai Government Polytechnic, Loharu — Percentage: 63%

Personal Projects

•UAV scenario using UAV Toolbox and Simulink in MATLAB

In MATLAB's UAV Toolbox and Simulink, initialize a UAV scenario with platforms, ground mesh, and cylindrical obstacles. Attach a lidar sensor to the first UAV. Use the UAV Scenario Configuration, Motion Write/Read, Get Transform, Lidar, and Scope blocks in Simulink to visualize UAV motion and lidar readings. Run the model to animate.

•Smart irrigation system using Arduino

Create a smart irrigation system with Arduino Uno, soil moisture sensor, relay module, and water pump. Connect sensors to Arduino for soil moisture and optional DHT sensor for temperature/humidity. Code Arduino to activate the pump based on soil dryness. Enhance with Wi-Fi, RTC, solar power, and weather integration.

•Smart door using Arduino Uno

Create a smart door with Arduino Uno, servo motor, magnetic door sensor, optional PIR motion sensor, ESP8266 Wi-Fi module, push button, LEDs, and necessary resistors. Connect components to appropriate pins, code Arduino for monitoring and control, and use ESP8266 for remote access. Test each component for smooth operation.

Experience

•Indian Railway

I completed my training in the electrical lab with Indian Railways, Samastipur Division, where I gained hands-on experience and comprehensive knowledge of the electrical systems integral to railway operations. This training involved working with power distribution systems, signaling equipment, and locomotive electrification. I learned to troubleshoot, repair, and maintain these electrical components to ensure their efficient and safe functioning. This experience has equipped me with essential technical skills and a thorough understanding of the electrical infrastructure critical to the railway system.

•Internshala Training Virtual Internship

I completed my training in machine learning through Internshala, where I gained practical and theoretical knowledge on various aspects of machine learning. The program covered essential topics such as data preprocessing, regression, classification, clustering, and neural networks. I also worked on hands-on projects that involved real-world datasets, which helped in solidifying my understanding and application of machine learning concepts. This training has equipped me with the skills necessary to build and deploy machine learning models effectively.

Technical Skills and Interests

- HTML
- CSS
- JavaScript
- MatLab
- SolidWorks
- C++ With DSA
- Embedded C
- Python
- ML

Positions of Responsibility

- On Desk Registrations Volunteer GGSIPU health mela
- nss volunteer at meri mati mera desh