Rohit Singh

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EXPERIENCE

* Research Publication | 46th (Inter) National System Conference

Under the Academic Projects section, you will find a reference to the paper on Plant Disease Detection with Bluetooth Controlled Rover Project. Notably, this paper received recognition as the best paper in the Agroecology-cum-Precision Farming Systems category.

- Industry Automation Engineer Intern | Livwize IoT Solutions Smart Industrial Automation India (R&D), Noida Developed a 6-Node device for power monitoring in homes and industries as part of a collaborative team effort. Successfully created a precise Ohm meter to meet client specifications. Conceptualized, designed, and independently developed a prototype for a smart environmental monitoring device, showcasing innovation and initiative.
- Research Publication | 45th (Inter) National Systems Conference The research was based on value-based education and several solutions was provided to deploy value-based education in higher studies.
- Internship with college | Dayalbagh Educational Institute (2020 Present)
 As an intern on a pollution control project utilizing water mist, my primary responsibility was to monitor air quality. I was
 enrolled in the Learn and Earn program.

EDUCATION

- * ITI Automobile | Dayalbagh Educational Institute, Agra | CGPA: 85.60
- B.Voc (AI & Robotics) | Dayalbagh Educational Institute, Agra | CGPA: 8.0 | Passing 2024

ACADEMIC PROJECT

✤ Plant Disease Detection with Bluetooth Controlled Rover

Spearheaded an initiative focused on enhancing agricultural productivity and sustainability. Developed a pioneering solution for farmers that enables disease identification in crops and delivers actionable solutions via WhatsApp.

I was the team leader in a collaborative group project, I assumed the primary responsibility of training and implementing the machine learning model in Raspberry Pi, while also overseeing and executing leadership duties.

Technologies Employed:

Leveraged Machine Learning Integrated WhatsApp API for message forwarding Employed Raspberry Pi and other hardware for rover development Utilized Python for Machine Learning Implemented Micro-Python for rover functionality

✤ Indian sign language detection

I conceptualized this project aimed at addressing communication barriers between individuals with hearing impairments or speech difficulties and the general population. The core idea involved capturing real-time videos of individuals using sign language, and employing a machine learning model to instantaneously translate these signs into English.

✤ Four-Legged Surveillance Bot

A spider-shaped, four-legged robot equipped with a live feed camera and Bluetooth control. This was specifically engineered for military and surveillance applications in challenging disaster-stricken environments where human access is limited. The robot operates on an Android platform and is remotely controlled via a smartphone.

Home Automation with voice command (Personal Project)

Successfully developed and implemented a voice command and mobile-operated door lock and room light system in my personal room and the main gate of my house. This project has been in use for the past 6 months, demonstrating its effectiveness.

Key Technologies:

- NLP (Natural Language Processing)
- ESP32 (Microcontroller Board)
- MQTT Server

ACHIVMENTS & PARTICIPATIONS

- Best Paper Award | 46th (Inter) National System Conference Received the prestigious Best Paper Award in the Agroecology-cum-Precision Farming Systems category, outshining approximately 400 other papers in the same category.
- Poster Presentation | 45th (Inter) National System Conference Accomplished the honor of Poster Presentation and publication in the highly competitive Value-Based Education category, surpassing approximately 2600 submitted papers.

Smart India Hackathon 2023

Successfully completed an internal hackathon, earning the opportunity to participate in the final showdown.

SKILLS

- Programming Language
 - Python
 - C++ (Arduino)
 - Java (basic)
 - HTML
 - CSS
 - MySQL

* Technologies | Frameworks

- OpenCV
- Scikit_Learn
- Django
- Matplotlib
- TensorFlow (Basic)
- MQTT

Software's

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- Adobe Photoshop
- Adobe Illustrator
- Label Image
- **Microcontroller Boards**
 - Arduino
 - Esp32, Esp8622
 - Raspberry Pi