

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