



KRISHNA GUPTA

Lucknow, 226024
(+91) 8948283605
krishnaacademics2019@gmail.com
[linkedin](#)

EDUCATION

IET, DSMNRU, Lucknow • B.Tech (ECE) • Pursuing (2020-2024) CGPA : 7.4

La Martiniere College, Lucknow • ISC • (2020) Percentage : 81%

La Martiniere College, Lucknow • ICSE • (2018) Percentage : 89%

SKILLS

Data Structures • Algorithms • Embedded Systems • Machine Learning and Deep Learning • Computer Vision • Robot Kinematics/Control • Proficient in Arduino • IOT • Edge Computing • TinyML • Swarm Robotics • ROS

EXPERIENCE

iDEX - DIO, DDP, Ministry of Defence • Zebu Intelligent Systems Pvt Ltd, Hyderabad, Telangana • Software Intern (MAY 2023 -JULY 2023)

As Software Intern where during which I worked on the “**Real time ship detection using YOLOv7**”. Developed a ship detection and classification system using the YOLOv7 algorithm for enhanced national maritime security and defense capabilities by accurately detecting and classifying ships in real-time. Achieved high accuracy and efficiency in ship detection, contributing to improved situational awareness and threat identification.

- Key Skill - Deep Learning, Computer Vision

Centre For Advanced Studies, AKTU, Lucknow • Research Intern (JUNE 2022 - Present)

Machine Learning Research Intern under Dr Vrinda Yadav where during which I worked upon upon the following three topics namely **Code Smell Detection Of Smell Feature Envy Using Deep Learning, Code Completion Using Deep Learning and Code Smell Detection using Multi Label Classification Approach.**

- Key Skill - Deep Learning, Transformer, Cloud GPU, Documentation, and Interpretation of the collected data

Currently I am working as a Mechatronics Research Intern under Dr. Anuj Kumar Sharma, HOD of Mechatronics from CAS where I conducted research on **Real Time Control of Multiple Robots using Hand gesture** (which was successfully presented and accepted for publication in SCOPUS indexed conference proceedings and is **under press**) and also worked upon **Live terrain monitoring and classification using mobile robots.**

- Key Skill - Computer Vision, Multiple Robot Control, Python , Embedded System

Learn For Cause (LFC), Bhubaneswar • Product Marketing Manager (MARCH 2022 - SEPTEMBER 2022)

Analysis of competitors's activity (social media strategy, funding, courses structure) and Product research and designing the course on Cloud computing workshop, Mechatronics workshop and Digital marketing workshop

- Key Skill - Product research, Market analysis and Marketing Strategy

PROJECTS / RESEARCH PAPERS.

- **Real Time Control of Multiple Robots using Hand gesture** : In this paper explored a novel way of controlling multi-robot systems by hand gesture without need of any extra hardware for controlling it also featured in **Times Of India**([link](#)) and other local news outlets.
- **Live terrain monitoring and classification using mobile robots** : In this project created a wireless robot system for live monitoring and classification of the type of terrain, enabling the operator to categorize the terrain remotely. The aim of this project was to help the path planner to select the most efficient path for the desired goal location.

- **IOT Based Remote Health Monitoring System** : An ESP32 based innovative automated device for smart patient health tracking system using Web Server so that the Patient health parameters like Heart Rate, fluid level and Blood Oxygen level along with body temperature can be monitored easily on fly.
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Achievements

- ***XR Startup Grand Challenge - Healthcare By Facebook (META)***

My Idea “Project Halia” was shortlisted as **Top 20 all over India** for the Grand Challenge XR Startup Program, a collaboration between **Meta, MeitY Startup Hub (MSH) and FITT- IIT Delhi**. Halia is an XR personal therapy assistant which will assist users and provide them with mental aid and relief by giving you an experience of the intimacy and comfort that is offered by a real person.

- ***The Broken Barrier - Hackathon for Accessibility (Anveshanam 2023 IET, DSMNRU)***

In this hackathon, I explored a novel way of controlling multi-robot systems using hand gestures, with the goal of creating a more accessible and intuitive interface for people with disabilities, especially those attending Dr. Shakuntala Misra National Rehabilitation University. Our team's project won first place, highlighting the potential for technology to break down barriers and improve the lives of people with disabilities.