Ghazarat Rufaie

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Date of Birth: 4th October 2004
Jammu and Kashmir, Srinagar

PROFILE

Passionate and experienced software engineering student with over 6+ years of coding experience, having started at the age of 14. Seeking to apply my skills in Agentic AI, Machine Learning, Automation, Robotics and Embedded Systems etc. contributing to impactful projects while gaining valuable industry experience.
Education: Final Year B-Tech CSE from Islamic University of Science and Technology
Languages: English, Hindi, Arabic

TECHNICAL SKILLS

Programming	Web Development	Machine Learning/ Deep Learning	Other
Python (6 Years)	Flask, NodeJS	TensorFlow, Pytorch	Flutter
C/C++ (5 Years)	SQlite, MySQL	CNNs, RNNs, Transformers	Unity, Blender, KiCAD
JavaScript	Full-Stack Development	SKLearn, ML Algorithms	ROS, CoppeliaSim, IsaacSim
Java	Firebase, Supabase	Gen AI	Gazebo etc.

Tools & Platforms
Git, Linux, Docker, VS Code

PROJECTS

Natural Language Driven Robotic Arm Manipulation (In Progress)
- Allowing robotic actuators to be operated via natural language.
- Advancing development of AGI by emboding existing VLM models.

Autonomous Rover Navigation for ISRO Rover Challenge
- Led the development of autonomous navigation software for a rover, implementing path planning using custom algorithm, SLAM, and obstacle avoidance.
- Developed a remote-control interface and pothole detection system to enhance terrain adaptability.

CivicFix Platform For Civic Issue Reporting and Resolution
- An AI automated social media inspired platform that allows user to upload civic issues within their locality.
- The issues/posts are automatically classified by AI models and the models alert relevent authorities within the locality to fix the issue.

e-Yantra Luminosity Drone Challenge
- Developed drone software using ROS and Gazebo Simulator for the e-Yantra competition.
- Successfully cleared stages 0 and 1, focusing on simulation-based navigation and control systems.

Robotic Arm Inverse Kinematics Using Gradient Descent
- Developed iterative inverse kinematics engine for a robotic arm using gradient descent.
- Designed control software with keyboard and Bluetooth integration for flexible operation.

INTERNSHIPS & CERTIFICATIONS

Software Foundations Course (Onsite)
IIT Bombay - June 2024

Machine Learning (Onsite)
NIT Srinagar- January 2025

CS50X Introduction to Computer Science
Harvard, edX - January 2023

EXTRACURRICULAR ACTIVITIES

President, Founder
Hyphen Club

Club Lead
Hyphen AI/ML Club

DynaBotX Club Member
Software Project Manager