

MOHIT SAINI

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PROFESSIONAL SUMMARY

Robotics and AI enthusiast pursuing B.Tech in Electronics and Communication Engineering with hands-on experience in ROS2, embedded systems, AI/ML, and computer vision. Skilled in developing robotics and IoT-based projects including quadruped robots, robotic arms, AI chatbots, and smart monitoring systems. Passionate about solving real-world problems using intelligent technologies.

EDUCATION

Arya College of Engineering and I.T., Jaipur Aug 2023 – Present
B.Tech in Electronics and Communication Engineering

Shyam Memorial Sr. Sec. School, Jaipur 2023
Senior Secondary Education

TECHNICAL SKILLS

Programming: C, Python

AI & Computer Vision: AI/ML, OpenCV, GenAI

Robotics & Embedded: ROS2, Arduino, ESP8266, IoT Systems

Tools & Platforms: Wokwi, GitHub, Linux, 3D Mechanical Design

EXPERIENCE

AI & Machine Learning Intern Jan 2026 – Feb 2026
Edunet Foundation (AICTE & IBM SkillsBuild)

- Completed a 6-week internship focused on Artificial Intelligence and Machine Learning
- Worked on AI-based problem solving and real-world applications
- Gained practical exposure to industry-level AI tools and workflows

Robotics & AI Industrial Trainee Jun 2025 – Aug 2025
MyEquation – Robo AI Program

- Completed a 45-day industrial training program in Robotics, Automation, and AI
- Worked with ROS2, robot simulation, teleoperation, and navigation systems
- Learned robotics software integration, electronics, and embedded systems
- Built and simulated robotics projects using ROS2 and modern robotics tools
- Explored AI and Machine Learning concepts for intelligent robotic applications

PROJECTS

Smart Energy Meter — IoT Based System

- Developed an IoT-based smart energy monitoring system with real-time tracking and remote control
- Implemented power usage analysis and electricity cost estimation features

Gesture-Controlled Robotic Arm

- Built a robotic arm controlled using real-time hand gesture recognition
- Integrated sensors and computer vision for smooth robotic movement

Quadruped Robot Dog

- Developed a four-legged quadruped robot inspired by Boston Dynamics Spot
- Implemented wireless remote control and robotic locomotion system

Emotion-Aware Mental Health Assistant (CalmNest)

- Designed an AI chatbot using facial expression recognition and mental health scoring systems
- Integrated PHQ-9 and GAD-7 based emotional wellness tracking

Landslide Detection using Chandrayaan Images

- Worked on lunar landslide and boulder detection using Chandrayaan satellite imagery
- Applied OpenCV image processing techniques for terrain analysis

ACHIEVEMENTS

- Secured 1st Position in Rajasthan Vigyan Mahotsav – MNIT Jaipur
- Secured 2nd Position in Projectathon 2.0 – Arya College
- Secured 7th Position in HACKSTORM 24-Hour Hackathon – JEC Kukas
- Secured 15th Position in ACE Hack 5.0 – UEM Jaipur
- Participated in Geo Spatial Intelligence Hackathon
- Participated in Bharatiya Antariksh Hackathon 2025

LEADERSHIP & ACTIVITIES

- Co-Lead, Robotics Club – Arya College of Engineering and IT
- Management Team Member – Geo Spatial Intelligence Hackathon 2026
- Active contributor to robotics and AI-based technical projects

CERTIFICATIONS

- Robo-AI Industrial Training Program – MyEquation (2025)
- Artificial Intelligence Fundamentals – IBM SkillsBuild
- AI & ML Internship Certificate – Edunet Foundation (AICTE)
- GenAI Virtual Experience Program – Forage