

Rishabh Singh

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EDUCATION

Presidency University, Bangalore B.Tech in Computer Science and Engg.	2021–2025
Kendriya Vidyalaya No.2, Jalahalli East, Bangalore 12th Grade, CBSE	2021

TECHNICAL SKILLS

Languages: Python, C, C++, Java, JavaScript

AI/ML: Computer Vision, CNNs, Transfer Learning, YOLOv5, SVM, ViT, TensorFlow, PyTorch

IoT/Robotics: Jetson Nano, ROS ,ESP32, STM32, RaspberrryPi, MQTT, LoRa

Web: React.js, Node.js, MongoDB, Express, CI/CD, Git, Linux, Docker, VS Code

WORK EXPERIENCE

Southern Taiwan University of Science and Technology, Taiwan <i>Research Intern</i>	Aug 2025 – Nov 2025
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- Generated 10,000+ synthetic automotive trip data points, improving downstream model training efficiency by 20% and developed the application for video generation using OBD-II data.

National Chung Cheng University, Taiwan <i>AI Research Intern</i>	Sept 2024 – Nov 2024
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- Developed PACS-integrated medical imaging platform (React, Node, MongoDB) for real-time esophageal cancer detection. Achieved 97% accuracy using ResNet/EfficientNet.

Indian Statistical Institute, Kolkata, India <i>Data Science Intern</i>	Jul 2024 – Oct 2024
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- Built offline-capable Generative AI educational app using Ollama 3.1 for 500+ students in low-connectivity environments.

IASYNT Global, Bangalore, India <i>Web Developer Intern</i>	Aug 2023 – Mar 2024
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- Developed full-stack web apps (React.js, Node.js); integrated IoT data via WebSockets and implemented CI/CD pipelines, improving deployment efficiency by 30%.

For a complete list of my work experience, [click here](#).

PROJECTS

AI-Based Automatic Drone Surveillance System Autonomous drone surveillance using YOLOv5, RGB/thermal cameras, ROS, and Jetson Nano.	GitHub
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PACS-Integrated Cancer Detection System Real-time PACS + AI diagnosis platform integrating CNN-based cancer prediction (97%).	GitHub
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Indian Medicinal Plant Identification System AI-powered system for leaf-based identification of Indian medicinal plants using deep learning.	GitHub
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To view all projects in detail, [click here](#).

PUBLICATIONS

- R. Singh, M. S., S. Mondal, S. Sarkar**, "Identification of Indian Medicinal Plants Using ML," *Springer*, 2025 (Accepted) [Yet To Publish](#)
- R. Singh, P. Jain**, "CelInsight: AI-Powered Web Solution for Cervical Cancer Detection," *Presidency University*, 2024 [Read here](#)
- A. Kumar Singh, R. Singh**, "Real-Time AI Feeds for Indian Cyber Incident Detection," *Presidency University*, 2025 [Read here](#)

Full publication list available [Click here](#).

ARTICLES

- **Bridging the Gap: Architecting PACS-Integrated Deep Learning Systems for Real-Time Clinical Decision Support** [Read here](#)
- **Context-Aware IoT: Making Devices Think Smarter** [Read here](#)
- **High-Performance Vision Models for Resource-Constrained Environments** [Read here](#)

View all articles [Click here](#).

ACHIEVEMENTS

- Winner – Smart India Hackathon 2024 (India's largest government-organized hackathon)
- Runner-Up – Prajwalan 2k24 Hackathon
- Runner-Up – SCIMIT Mega Science Expo 2024
- Most Innovative Idea – InnovateX, IISc Bangalore

See complete achievements [here](#).

To know more about me in a more interactive and detailed way, please visit my website:

 [Click here to explore my portfolio.](#)