

# Rishabh Singh

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## EDUCATION

<b>Presidency University, Bangalore</b> B.Tech in Computer Science and Engg.	2021–2025
<b>Kendriya Vidyalaya No.2, Jalahalli East, Bangalore</b> 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, RaspberryPi, MQTT, LoRa

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

## WORK EXPERIENCE

<b>Southern Taiwan University of Science and Technology, Taiwan</b> <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.

<b>National Chung Cheng University, Taiwan</b> <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.

<b>Indian Statistical Institute, Kolkata, India</b> <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.

<b>IASYNT Global, Bangalore, India</b> <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

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

## PUBLICATIONS

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**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**, “CellInsight: 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

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- **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

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- 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.](#)