

Tanu Shree Kumawat

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Education

Ramaiah Institute of Technology, Bengaluru

B.E. - Computer Science and Engineering - **CGPA -**

9.1

A's Steward Morris School, Bhilwara, Rajasthan

Upper Secondary Graduation - **Percentage - 92.0**

Work Experience

Research Intern - Samsung (<https://research.samsung.com/sri-b>)

Oct '2024 - Present

- Working with Samsung R&D Institute India-Bangalore under Samsung PRISM program.

Information Technology Team - Editha UAS (<https://www.edhitha.com/>)

Nov '2023 - Jul '2024

- Implemented machine learning models for object detection and text classification, achieving up to 95% accuracy on a dataset of 80,000 images and compared performance for aerial and underwater vision tasks. | YOLOv8, YOLOv5, Efficient Net, SSD MobileNet, TensorFlow
- Worked on computer vision systems for UAVs and AUVs, enabling real-time detection and tracking at 30 FPS in dynamic environments. | Arducam, Raspberry Pi camera, Webcam
- Designed and implemented solutions for underwater path planning, and navigation | ROS
- Enhanced detection and classification performance through advanced image processing techniques, achieving text extraction accuracy of 98%, improving system reliability for automated tasks.. | OpenCV, Text extraction

Achievements

- Achieved 7th place out of 79 teams in the prestigious SAUVC 2024, showcasing strong technical skills and innovative design in developing autonomous underwater vehicles during a highly competitive event held annually in Singapore.
- SUAS Competition (2024) - Maryland, USA
Contributed to the team that secured 4th place overall and earned 1st place in Technical Design and Flight Readiness at the SUAS Competition.

Skills

Programming Languages: C++, Python, Java (intermediate)

Developer Tools: VS Code, Git, GitHub, Canva

Technical Skills: Computer Vision, Machine Learning, Automation, Onboard Computers

Fundamentals: Data Structures, Operating System, Data Communication and Networking, Linux Kernel

Soft Skills: - Public Speaking, Quick Learner, Adaptability, Positive Attitude, Collaboration, Problem Solving, Communication

Projects

Hand Gesture Controlled Drone System | Pluto , Object Detection, Yolo v8, ROS

May'2025

- Developed a hand gesture controlled drone system , trained over 8000 images with over 95%accuracy

Awaaz-AI | *Google Cloud Services, Google Gemini* | *IDE - VS Code, Postman*

Nov '2024

- Developed a chatbot platform providing legal assistance and trauma support for women, assisting over 500 users by leveraging AI and NLP for secure and empathetic interactions.

Color Space Optimization | *K-Means clustering, Python, matplotlib*

Oct '2024

Other projects: Carpool Website, Anomaly detection, recommendation system: collaborative filtering.