

Akshay Kumar

+918217604494 | ak517ay@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

RNS Institute of Technology

Bachelor of Engineering in Computer Science

- GPA: 8.99/10

Bengaluru, India

Dec 2021 – Current

EXPERIENCE

SDE Intern

29-March-2024 – 29-May-2024

Indian Institute of Science Bengaluru

Bengaluru, India

- Spearheaded the development of a cutting-edge surveillance system, C.L.A.S.S, automating child labor reporting and driving real-world change through timely notifications to authorities.
- Engineered a scalable, robust solution with Python, Flask, Selenium, and Folium, optimizing automation and geo-mapping to pinpoint child labor hotspots in real-time.
- Collaborated with IISc and co-authored a research paper on C.L.A.S.S, submitted to INDICON (IEEE conf. #63790), showcasing its societal impact and technical innovation. [View Idea Video](#) — [View Implementation Video](#)

PROJECTS

PRECISION-VISION | *Python, OpenCV, Tkinter* | **GitHub:** [View Repository](#) | 17-February-2023 – 22-May-2023

- Devised an intuitive GUI using Tkinter, enabling seamless interaction with precision testing algorithms, and amplified the accuracy of eye diagnostics.
- Partnered with medical experts to validate the software, ensuring high accuracy and practical usability in preventive healthcare.
- Filed for patent, securing intellectual property rights for the novel technical advancements of the software.

SCHOLATA | *C, Data Structures* | **GitHub:** [View Repository](#) | 07-December-2022 – 12-January-2023

- Architected data structures leveraging linked lists to increase scholarship retrieval efficiency by 30%, delivering targeted recommendations.
- Crafted a user-friendly interface, enabling students to discover and apply for scholarships quickly and accurately, surpassing search times.
- Awarded recognition for innovation in educational solutions, placing among top projects in the CSE branch. [View Video](#)

C.L.A.S.S | *Python, Selenium, Folium, Flask* | **GitHub:** [View Repository](#) | 29-January-2023 – 18-April-2023

- Orchestrated real-time automated reporting of incidents, improving response time for authorities.
- Implemented geolocation functionality for precise mapping of high-risk areas, strengthening intervention strategies.
- Developed an interactive frontend that bolstered reporting efficiency and operational effectiveness.

SKILLS

- Programming Languages: C, C++, Python
- Web Technologies: HTML, CSS, JavaScript, Flask, Tailwind, MySQL, Django, SQLite
- Tools: Git, Selenium, OpenCV, Folium, Vercel, Canva

ACHIEVEMENTS

- **Submitted Research Paper in collaboration with IISc Bangalore:** Research paper on C.L.A.S.S submitted to INDICON (IEEE conf. no. #63790) at **IIT Kharagpur**.
- **Achieved 2nd Position out of 350 in College Problem Solving Competition:** Secured 2nd position out of 350 participants in the College Problem Solving Competition.