Akshay Kumar

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EDUCATION

RNS Institute of Technology   Bengaluru, India
Bachelor of Engineering in Computer Science   *Dec 2021 – Current*
- GPA: 8.99/10

EXPERIENCE

SDE Intern   29-March-2024 – 29-May-2024
Indian Institute of Science Bengaluru   *Bengaluru, India*
- Engineered an edge-cutting surveillance system, C.L.A.S.S, automating the reporting of child labor and driving real-world impact by streamlining notifications to relevant authorities.
- Developed a robust, scalable solution using Python, Flask, Selenium, and Folium, integrating automation and geo-mapping for real-time identification and reporting of child labor hotspots.
- Collaborated with IISc Bengaluru and co-authored a research paper on C.L.A.S.S, submitted to INDICon (IEEE conf. no. #63790) at IIT Kharagpur, showcasing the system's effectiveness in addressing child labor. View Idea Video — View Implementation Video

PROJECTS

PRECISION-VISION | *Python, OpenCV, Tkinter* | **GitHub:** *View Repository* | 17-February-2023 – 22-May-2023
- Spearheaded the design and implementation of the software, ensuring a user-friendly GUI and seamless integration of advanced algorithms for personalized eye testing.
- Collaborated with medical professionals to validate the software's accuracy and usefulness in practical eye care diagnostics.
- Secured a patent application to protect the novel features and technical advancements of the software.

SCHOLATA | *C, Data Structures* | **GitHub:** View Repository | 07-December-2022 – 12-January-2023
- Engineered advanced linked list data structures to streamline the management of scholarship information, enhancing retrieval speed and efficiency.
- Created a user-friendly interface for students to input their details and receive tailored scholarship recommendations, significantly minimizing search time and maximizing application success.
- Recognized as one of the best projects in the CSE branch during the 1st year, showcasing innovation and impact in the educational domain.
- Implemented the project: View Video

C.L.A.S.S | *Python, Selenium, Folium, Geolocation, Flask* | **GitHub:** *View Repository* |29-January-2023 – 18-April-2023
- Designed a robust backend using Flask to handle real-time data processing and reporting of child labor incidents.
- Implemented geolocation features to accurately identify and map child labor hotspots, facilitating targeted interventions.
- Created a user-friendly interface to enhance usability for reporting and tracking incidents of child labor, improving the overall efficiency of the reporting process.

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.