






SK RIHAN AKHTAR

 (+91) 9437810814
 rihanworks@gmail.com

 [devrihan](#)
 [sk-rihan-akhtar](#)

 [rihandav2004](#)
 [rihan-portfolio-website](#)

EDUCATION

- Vellore Institute of Technology** Vellore, India
Bachelor of Technology- Computer Science & Engineering 2022 Sept-2026 June




TECHNICAL SKILLS

- Programming Languages** Python, Javascript, C, C++, Java
- Frontend Technologies** ReactJS, NextJS, HTML, CSS, Bootstrap, TailwindCSS
- Backend/DevOps** NodeJS, ExpressJS, MongoDB, Oracle SQL
- Data Science Technologies** NumPy, Matplotlib, Seaborn, Machine Learning Models, OpenCV
TensorFlow, Plotly

EXPERIENCE

- Indian Railways, East Coast Railway Department** May 2024 -July 2024
IT Intern
 - Developed and deployed a comprehensive Complaint Management System (CMS) for internal use, significantly improving the efficiency by **45%** of handling employee grievances
 - Led team of 10** to deliver new customer support system; leveraging technologies such as **Node.js, Express, MongoDB, bcrypt, and multer**.
 - Optimized backend processes** to enhance the performance and reliability of the CMS, resulting in a **30%** reduction in complaint resolution time.
- Aptifyr** Sept 2024- Nov 2024
Data Analyst
 - Conducted research, collected and analyzed data to design workshops attended by **200+ students**, focusing on financial literacy, critical thinking, and entrepreneurship, in alignment with the National Education Policy (NEP).
 - Developed actionable insights from demographic and feedback data, tailoring program content to maximize student engagement and learning outcomes.
 - Collaborated with a multidisciplinary team to optimize program structure, ensuring alignment with modern education trends and student needs.

PROJECTS

- Zomato Exploratory data analysis** 
 - Conducted exploratory data analysis on a dataset of **56,000+** restaurants, identifying key factors like cuisine, location, and demographics influencing aggregate ratings and restaurant success.
 - Visualized trends using **Matplotlib and Seaborn**, uncovering that certain localities show a **35%** higher preference for vegetarian restaurants compared to others, aiding in targeted market strategies.
- Driver Drowsiness Detection** 
 - Launched a **cutting-edge real-time computer vision** solution for driver fatigue detection that utilized **Python** and **OpenCV**; the application processed over **1M data points**, enhancing overall safety protocols in the transportation sector.
 - Utilized facial landmarks and blinking patterns to accurately determine signs of fatigue and alert the driver with an **85%** accuracy rate.
- Track N Trash** 
 - Built a real-time waste detection system using **Python and OpenCV**, achieving sub-**200 millisecond** response time for identifying trash overflow in bins.
 - Developed a map-based feature integrated with **AWS** for geolocation data, allowing users to call garbage trucks for pickups, optimizing waste collection routes.