Sahil Kandhare

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EDUCATION

Rajarshi Shahu College of Engineering	Pune
Bachelor of Engineering, Computer , **CGPA – 9.69**	2020 - 2024
Laxman Rao Apte Junior College	Pune
Higher Secondary Certificate, **Percentage – 91.23**	2018 - 2020

SOFTWARE PROJECTS

SIGHT ↗ | (Anomaly Detection System)

- S.I.G.H.T. is a real-time geospatial surveillance and anomaly detection system.
- It achieves a remarkable **93.8%** precision in detecting car accidents within CCTV surveillance.
- It streamlines anomaly detection through an integrated video analyzer, offering users automatic event detection and precise timestamps which has save user's time by avoiding manual monitoring.
- The system currently identifies **2 anomalous events** viz. Fight detection and Accident detection.
- Tech-Stack: **OpenCV, YOLOv8, React.js, Django, Django–Rest–Framework, SQlite**.

AssembleScript ↗ | (Programming Language and Interpreter)

- Developed AssembleScript, an **interpreter** and a **programming language**.
- Created a web–based programming environment, providing users with a comprehensive and accessible platform for coding and development.
- Tech-Stack: **TypeScript, React.js, Bootstrap.**

Trinity-2023 ↗ | (Web Application)

- Built an event website, Trinity 2023, specifically designed for the ACM RSCOES's Trinity 2023 bootcamp.
- Designed and integrated a participation form with Google Sheet API as the backend, resulting in a user–friendly UI that efficiently handled 100+ overnight registrations for the event.
- Additionally, created a custom Quiz platform used by approximately 40 event participants to evaluate their performance.
- Tech-Stack: **Three.js, NodeJS, MongoDB, React.js, Blender, Vite (Bundler).**

TECHNICAL SKILLS

- **Data Structures and Algorithms, Object Oriented Programming, DBMS, Computer Networks.**
- **Languages:** C/C++, SQL, JavaScript. HTML, CSS / SCSS
- **Frameworks/Libraries:** React.js, Three.js, React three fiber.
- **Web Development:** Node.js, Express.js, RESTful API, Bootstrap, Databases(MySQL, MongoDB)
- **TOOLS:** Git-GitHub, Blender, Figma, VSCode.

PUBLICATIONS

Survey Paper: (Detection of Anomaly using Machine Learning: A Comprehensive Survey)
- Journal: IJETAE, **ISO Certified, SCOPUS Indexed International Journal.** Cited by 3
- In this paper we have **surveyed 101 research articles** describing ML techniques for anomaly detection.

Reserach Paper: (Real–Time Vehicle Accident Recognition from Traffic Video Surveillance using YOLOV8 ...)
- Journal: IJRITCC, **SCOPUS Indexed International Journal.**
- Presented an ensemble model utilizing YOLOv8 for precise traffic accident detection.
- Achieved substantial improvements with **93.8% precision**, **98% recall**, and **96.1% mAP**, demonstrating its real–time traffic surveillance effectiveness.

ACHIEVEMENTS

- **LeetCode Coder**: Rated as a **3–star coder** with a maximum rating of **1600 (top 22.1% worldwide)** and having solved **750+ problems**. [LeetCode Profile]
- **Tech Innovation**: **Second runner–up** in the **PCMC Swachh Innovative Challenge** at the **district level**.
- **Academic Excellence**: Ranked **2nd in FYBtech** and **1st in TYBtech** in college.