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

WORK EXPERIENCE

Frontend Development Intern | (Fyle Inc) (9th Jan 2024 - Present)

- **Upgraded dependencies** and **eliminated deprecated code**, Identified and fixed over 7000+ linting errors caused by 13 deprecated rules, significantly enhancing the maintainability and cleanliness of the stylesheets
- Fixed field-naming **bug report**, eliminating inconsistencies in the user experience for admins and achieving a **100% decrease** in user-reported issues in the area, positively impacting on system reliability.
- **Led initiatives** to optimize and enhance the display of policy violation icons on expense and report lists, resulting in a more intuitive and user-friendly interface for Fyle's customers.
- Tech-Stack: **Angular**, **TypeScript**.

SOFTWARE PROJECTS

SIGHT | (Anomaly Detection System)

- S.I.G.H.T. is a real-time geospatial surveillance system with automated anomaly (car accident) detection.
- Integrated an ML model into the FLASK backend for efficient CCTV analysis. Designed a user-friendly interface for easy uploads and report generation.
- Achieved notable improvements over prior work, including a **2.74% increase in precision** (91.3% to 93.8%), an **11.88% increase in recall** (87.6% to 98%), and a **2.45% increase** in mAP (93.8% to 96.1%), while a substantial **28.736% reduction** in false alarms.
- This automation will impact event detection by **saving time** and generating **accurate timestamps**.
- Tech-Stack: **OpenCV, YOLOv8, React.js, Flask, MongoDB**.

Trinity-2024 | (Full Stack Web Application)

- **Designed & Developed** a comprehensive event website for the Trinity 2024 boot camp.
- With a visually appealing user interface integrated with Node.js to develop an efficient participation form, allowing attendees to register seamlessly for the boot camp.
- Implemented a QR code scanning-based attendance marking system that **enhanced event management efficiency**, providing faculty with accurate and real-time attendance data.
- The website helped in getting **80+ overnight registrations** for the event & played an important role in streamlining the registration process.
- Tech-Stack: **Three.js, NodeJS, MongoDB, React.js, R3F, Vercel.**

TECHNICAL SKILLS

- **Data Structures and Algorithms, Object Oriented Programming (CPP), DBMS, Computer Networks.**
- **Languages:** C/C++, JavaScript.
- **Tech/Libraries:** React.js, Three.js, React-three-fiber, WebGL.
- **Web Development:** Node.js, Express.js, RESTful API, Bootstrap, Databases(MySQL, MongoDB).
- **TOOLS:** Git-GitHub(Branches, workflows), Blender, Figma, VSCode, AWS EC2, Notion.

ACHIEVEMENTS

- **LeetCode Coder**: Rated as a **4-star coder** with a maximum contest rating of **1,783 (top 8.1% worldwide)** and solved **900+ problems**. [LeetCode Profile].
- Proposed ensemble model with YOLOv8 for real-time traffic accident detection with **93.8% precision,** published research in **IJRITCC**, a **SCOPUS-indexed international journal**. Check out the publication [here].
- **Second runner-up** in the PCMC Swachh Innovative Challenge at the **district level**. Cash Price: **25000/-**.
- **Academic Excellence**: Ranked **2nd in FYBtech** and **1st in TYBtech** in college.