Sai Kumar Bandi

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EDUCATION

Nalla Malla Reddy Engineering College *(Affiliated to JNTUH)* — Hyderabad
Bachelors of Technology in Computer Science and Engineering — *Nov 2022 - Present*
Grade: 8.5 CGPA

Sri Chaitanya Junior Kalasala — Hyderabad
Intermediate in Mathematics, Physics and Chemistry — *July 2022 - Mar 2022*
Grade: 93.1%

Nalanda Vidya Bhavan High School — Hyderabad
Grade: 10.0 CGPA — *Mar 2020*

PROJECTS

YOLO Based Adaptive Traffic Control Signals Control System and Real Time Violation Monitoring *(Major)*
- Built an intelligent urban traffic management system by integrating adaptive traffic signal control, signal violation detection and emergency vehicle prioritization with GUI dashboard using YOLOv11, OpenCV, Python, ByteTrack, Streamlit and PyTorch.
- The system results in an 18% increase in traffic flow, 22% reduction in vehicle wait time near signal intersection in real-time scenarios.
- The work was published in IEEE Digital Library, 6TH International Conference on IoT Based Control Networks and Intelligent Systems , (*ICICNIS 2025*).

Government Schemes Eligibility Notification System *(Minor)*
- Developed an intelligent notification system that sends government schemes updates to eligible registered users based on eligibility criteria in 7 Indian preferred languages through mail.
- Implemented automated eligibility matching using database filtering and rule-based logic.
- Built using Python, MySQL, REST API, HTML / CSS / JS, SMS / Email API.

ACADEMIC SUBJECTS

DataStructures & Algorithms, Database Management Systems, Operating Systems, Computer Networks, Software Engineering, Full Stack Web Development, Object Oriented Programming, DevOps.

TECHNICAL SKILLS

Languages: C++, C, Python, HTML, CSS, JavaScript, SQL
FrameWorks and Libraries: NodeJS, ReactJS, ExpressJS, PyTorch, OpenCV, Flask
Databases: MongoDB, MySQL
Developer Tools: VS Code, Git, GitHub, Docker, Figma
Design Skills: Product Design, UI/UX Design, Interaction Design, Visual Design, User Personas, Prototyping User Research, Wireframing, Affinity Diagramming, Journey & Empathy Mapping, Usability Testing

LANGUAGES KNOWN

English, Hindi, Telugu

LINKS: GitHub, LeetCode, Portfolio