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 Signal Control System and Real Time Violation Monitoring
- 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 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
- Developed an intelligent notification system that sends government scheme updates to eligible registered users based on age, income, occupation, and other criteria.
- Implemented automated eligibility matching using database filtering and rule-based logic.
- Built using Python, MySQL, REST API, HTML/CSS, SMS/Email API.

ACADEMIC SUBJECTS

DataStructures & Algorithms, Database Management Systems, Operating Systems, Computer Networks, Software Engineering, Full Stack Development, Machine Learning, Deep Learning, DevOps.

TECHNICAL SKILLS

Languages: Python, C++, C, HTML, CSS, JavaScript
FrameWorks and Libraries: NodeJS, DJango, FastAPI, SKLearn, TensorFlow, PyTorch
Databases: MySQL, MongoDB
Developer Tools: VS Code, GitHub, Figma
ML/DL Libraries and Tools: NumPy, Pandas, Matplotlib, Jupyter, Google Colab

LANGUAGES KNOWN

English, Hindi, Telugu

LINKS: LeetCode, GitHub