

MANASWIN SRIPATNALA

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TECHNICAL SKILLS

Languages	Python, JavaScript (ES6+), Java, C++, SQL
Web Development	React.js, Node.js, Express.js, MongoDB (MERN), REST APIs
AI & Machine Learning	OpenCV, YOLOv8, Scikit-learn, NumPy, FastApi
Tools & Databases	Git, GitHub, Postman, MySQL, Firebase, Cloudinary, Netlify, VS Code

EDUCATION

- **Marathwada Mitra Mandal's College of Engineering** *Expected June 2027*
Bachelor of Engineering (Computer Engineering) *Pune, India*
- **Maharashtra Institute of Technology** *July 2023*
Higher Secondary Education (Science) *Pune, India*

KEY PROJECTS

AI Traffic Moderator (PBL-II Winner) | *Python, YOLOv8, OpenCV* Source Code

- Designed and built a real-time computer vision system for vehicle detection using **YOLOv8** and **OpenCV**.
- Designed an adaptive traffic signal algorithm based on live lane density to optimize traffic flow.
- Achieved reliable detection performance under low-light and urban conditions.
- Awarded **Best PBL Project 2024** for innovation and implementation.
- Research paper based on this project **accepted (with major revisions) at IEEE IGNITE 2026**.

Lumina Beauty – AI Skin Tone Analysis | *Python, OpenCV, React, Flask* Live Demo

- Engineered an AI-driven skin tone analyzer using **OpenCV** and Haar cascades for real-time face detection and regional feature extraction.
- Implemented **K-Means clustering** and LAB color space distance calculations to isolate dominant skin tones and accurately match cosmetic shades.
- Developed a full-stack application integrating a **TypeScript** frontend with a **Flask** REST API to process user images and deliver personalized product recommendations.

Contract Farming Platform | *MERN Stack* Live Demo

- Developed a full-stack web platform connecting farmers and buyers using MERN stack.
- Designed **RESTful APIs** and structured backend using **MVC architecture**.
- Implemented efficient database schema for handling user and contract data.
- Selected in **Top 7 teams in SIH 2024 internal round**.

INTERNSHIP EXPERIENCE

theCodersHub – Full Stack Developer Intern *Jan 2026 – April 2026*

- Developed and deployed a live community platform **Jireмали Samaj** currently serving **120+ users**.
- Implemented user-focused features to improve engagement and accessibility.
- Managed deployment and backend integration for real-world production usage.
- Developed **RESTful APIs** for the **ReadBuddy** mobile application, supporting features like content access, user interaction, and book management.
- Contributed to backend logic enabling online reading, listening, and marketplace (buy/sell) functionality.
- Collaborated on requirement gathering and iterative feature improvements.

CERTIFICATIONS & ACHIEVEMENTS

- **IntrnForte**: Certified in Data Science and Full Stack Web Development.
- **Winner – PBL 2024**: Secured 1st place for AI Traffic Moderator project.
- **IEEE IGNITE 2026**: Research paper on AI-based Traffic Optimization accepted (with major revisions).

ADDITIONAL INFORMATION

Languages: English (Fluent), Hindi (Fluent), Marathi (Fluent), Telugu (Conversational)
Interests: 3D Web Development (Three.js), Game Development (Unity/Unreal)