

Bakki Tharun Ram Patel

B.Tech. - Computer Science & Engineering

CMR College of Engineering & Technology, Hyderabad

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GitHub

LinkedIn

PROFILE

Aspiring and dedicated Computer Science Engineering student with a strong foundation in full-stack development, machine learning, and computer vision. Skilled at building innovative, scalable, and efficient solutions using modern tools and frameworks. Passionate about continuous learning, teamwork, and applying technology to solve real-world challenges.

EDUCATION

- | | |
|---|--------------------|
| • CMR College of Engineering & Technology, Hyderabad | <i>2022 – 2026</i> |
| <i>B.Tech. - Computer Science & Engineering</i> | CGPA: 7.0 / 10 |
| • Narayana Junior College | <i>2020 – 2022</i> |
| <i>Board of Intermediate Education, Telangana</i> | Percentage: 86.7% |
| • Shine High School | <i>2019 – 2020</i> |
| <i>Secondary School Certificate</i> | Percentage: 95% |

PROJECTS

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|--|----------------------------|
| • Road Pothole Detection Based on Crowdsourced Data | <i>Jan 2025 – Jun 2025</i> |
| <i>AI/ML-powered system leveraging computer vision and IoT for smart road maintenance</i> | Team Size: 3 |
| – Designed and deployed a mobile app pipeline to collect crowdsourced road images, videos, and GPS data. | |
| – Built CNN-based models using OpenCV and TensorFlow to detect potholes and classify severity levels. | |
| – Optimized for large-scale real-time data streams, ensuring scalability and fault tolerance. | |
| • Smart Traffic Monitoring System | <i>June 2025 – Present</i> |
| <i>YOLOv8-based real-time traffic light controller and violation detection system</i> | Team Size: 4 |
| – Developed dynamic signal timing adjustment based on live vehicle count using computer vision. | |
| – Integrated YOLOv8 for vehicle detection and traffic violation analysis. | |
| – Enhanced efficiency by reducing wait time and improving flow through real-time control logic. | |

TECHNICAL SKILLS

Languages: Python, C, HTML, CSS

Frameworks: Bootstrap

Databases: MySQL

Developer Tools: Git, GitHub, VS Code

ACHIEVEMENTS

- Organized and conducted a coding contest at college, boosting peer engagement in programming.
- Recognized for contribution to **Azura 2k25 Technical Symposium** with event coordination and leadership.
- Actively participated in **Crack IT Up** and other technical events at CMR College.

CERTIFICATIONS

- Crack IT Up – Recognized for active participation in Azura 2k25 Technical Symposium.