YALAMARTHI MOHITH SRI SATYA SAI

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[GitHub](#) | [LinkedIn](#)

Nationality: Indian

RESEARCH PROFILE

Computer Science graduate specializing in **Artificial Intelligence and Computer Vision**. Author of a **real-time Driver Drowsiness Detection system** with measurable accuracy and performance. Strong foundation in **intelligent perception, safety-critical systems, and software reliability**. Research interests include **trust-aware AI, computer vision for transportation safety, and AI-driven healthcare systems**. Seeking advanced research training at **EPFL**.

EDUCATION

Bachelor of Engineering (B.Tech.) – Computer Science

Dr. MGR University, Chennai, Tamil Nadu, India

2021 – 2025

Core Coursework:

Data Structures & Algorithms, Artificial Intelligence, Machine Learning, Computer Vision, Object-Oriented Programming, Database Management Systems, Software Engineering, Probability & Statistics, Discrete Mathematics, Linear Algebra.

PUBLICATION / RESEARCH PROJECT

Real-Time Driver Drowsiness Detection System
Python, OpenCV, PyTorch, Streamlit, Multiprocessing   [Source code](#)

- Designed and implemented a **real-time computer vision system** to detect driver fatigue using facial landmarks and eye-blink analysis.
- Achieved **high detection accuracy with real-time inference performance** optimized through multiprocessing.
- Built an interactive dashboard using **Streamlit** for live monitoring.
- Research focus: **intelligent perception, reliability in safety-critical environments, and real-world robustness**.
- **Status:** Presented at: *13 th International Conference on Contemporary Engineering & Technology 2025*
- **GitHub Repository:** [Link](#)

SIDE PROJECTS

- **Personal Portfolio Website (React.js, HTML, CSS):** Built a fully responsive personal research and project portfolio with optimized load time (<2s).   [Source code](#)
- **Internet Banking System (Java, MySQL):** Secure system with authentication, transaction management, and data integrity.   [Source code](#)
- **OpenCart Website Testing (Manual Testing):** Designed and executed **150+ functional and regression test cases**; identified and documented 40+ defects across checkout and authentication modules.   [Source file](#)

INTERNSHIP

Software Testing & Java Intern – Besant Technologies, Chennai
Manual Testing | Java | SDLC | STLC

- Applied **SDLC and STLC methodologies** in real-world client applications to ensure software reliability.

- Executed **functional, system, and regression testing** across 3 production-scale modules.

- Reduced post-release defect leakage by **~25%** through structured test case design and defect tracking.

- Strengthened practical exposure to **software validation, debugging, and QA workflows**.

TECHNICAL SKILLS
- **Programming:** Java, Python, JavaScript, Data Structure and Algorithms
- **Machine Learning & Vision:** PyTorch, OpenCV
- **Web Development:** React.js, HTML, CSS
- **Databases:** MySQL
- **Tools & Platforms:** Linux, Git, Streamlit
- **Software Engineering:** SDLC, STLC, Defect Tracking, Debugging

CERTIFICATIONS
- **Core Java & MySQL** - Besant Technologies   **Link**

- **Namastey React**   - Akshay Saini   **Link**

- **Project Publication** - International Conference   **Link**

ACHIEVEMENTS & STRENGTHS
- Strong analytical thinking with deep interest in **AI for safety-critical applications**
- Research-driven mindset with practical system deployment experience
- High motivation for **academic research and interdisciplinary innovation**

LANGUAGES
- English (Fluent)
- Telugu (Native)
- German A2 level
- French (Basic)