

BHARATHWAJ S

Computer Science Engineer (AI & ML)

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EDUCATION

B.E. in Computer Science (AI & ML)	2022 – Present
Sri Sairam Engineering College, Chennai, India	CGPA: 8.12
Class XII (Science Stream)	Jun 2022
The PSBB Millennium School OMR, Chennai, India	75.6%
Class X	Mar 2020
Pon Vidyashram Senior Secondary School, Chennai, India	84.4%

TECHNICAL SKILLS

Programming Languages:	Python, C, SQL, Java (Basic), HTML, CSS
Frameworks & Libraries:	TensorFlow, YOLO, Detectron2, OpenCV, DAX
Domains:	AI & ML, Computer Vision, IoT, Web Development, NLP, Business Intelligence
Soft Skills:	Problem Solving, Analytical Thinking, Team Management, Leadership

WORK EXPERIENCE

ML Intern – NeubAITics Tech Pvt Ltd, Chennai	Dec 2024 – Jan 2025
• Created an AI-powered Attendance System using facial recognition and OpenCV, achieving 95% accuracy and reducing manual attendance marking time.	
• Developed a YOLOv8-based Shoplifting Detection System with real-time alerts within 2 seconds of detection, reducing false positives by 30%.	
Computer Vision Intern – Saint Gobain Pvt Ltd [INDEC 4.0], Chennai	Jun 2025 – Jul 2025
• Built a PPE Kit Detection Model using Detectron2 and OpenCV, achieving 80% detection accuracy and automating workplace safety compliance checks.	
• Created a YOLOv8 Crack Detection Model for glass and transparent objects, achieving 75% accuracy in crack detection.	

PROJECTS

Cricket Scorecard System – Higher Secondary Final Project	Jan 2022
• Developed a Python-SQL application that simulates 20-over cricket matches with random score generation and live commentary.	
• Implemented player statistics tracking in MySQL and connected the database with Python for dynamic updates.	
Live in Lab – Pothole Detection System	June 2023 – Present
• Integrated IoT sensors with YOLOv8 to detect potholes and transmit real-time alerts to municipal authorities.	
• Built a web dashboard for uploading and reporting potholes to respective authorities for immediate action.	
Dhruva – Deep Blue (Semi-Finalist) – Mastek Limited	Nov 2024 – Mar 2025
• Engineered a ML & IoT dashboard for logistics fleet management including route optimization, driver fatigue detection, diesel level monitoring, and chatbot integration to connect owners, drivers, and end users in real time.	

CERTIFICATIONS

• NPTEL: Google Cloud Computing, Deep Learning, Compiler Design, Human Computer Interfaces, Cloud Computing, Business and Sustainable Development
• Cisco: Python Essentials, Cybersecurity, CCNA
• AWS: Solutions Architecture Job Simulation; Tata: Gen AI Data Analytics, Cybersecurity Simulation

- **IIT Spoken Tutorial:** C,Arduino, Java, MySQL, Python
- **HackerRank:** SQL
- **Udemy:** UX Design, Ethical Hacking

PATENTS AND PUBLICATIONS

- **Patent:** Pothole Detection & Road Health Monitoring
- **Publication:** Scalable Pothole Detection System for Urban Road Networks - **Best Paper Award** at IConSCEPT 2025, NIT Puucherry, Karaikal

POSITIONS AND ACTIVITIES

- Student Coordinator – CSE (AI & ML)
- Event Coordinator - AICON 2025 , AIOTA 2024, AIOTA 2023 (SYMPOSIUM)
- Magic Member- IEEE SIGHT IEEE EPICS
- Advocate- Atal Pension Yojana
- Rover – Bharat Scouts & Guides Diamond Jubilee Jamboree 2025, Trichy
- Volunteer - Sairam MUN, UBA Events, Convergence 2025 , Tech4Good