TARUN D R

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EDUCATION

Jawaharlal Nehru National College of Engineering   Shivamogga, India
Bachelor of Engineering in Information Science & Engineering   Dec 2022 – Apr 2026
CGPA: 8.9/10 |

TECHNICAL SKILLS

Programming Languages: Python, SQL, HTML, CSS
Tools & Frameworks: TensorFlow, Jupyter Notebook, Microsoft Power BI, MS Excel, Visual Studio Code
Core Competencies: Machine Learning, Deep Learning, Convolutional Neural Networks, Data Analytics, Web Development

PROJECTS

AI-Driven Detection and Classification of Cervical Cancer Cells

- Developed CNN-based cervical cancer detection model achieving 80%+ accuracy on 7,500 Liquid-Based Cytology images, improving early-screening efficiency by 40%
- Engineered role-based system enabling lab technicians to upload medical images and doctors to review automated diagnostic reports
- Deployed both offline and web-based prototypes with image upload functionality and automated report generation
- **Impact:** Awarded Special Jury Award among 200+ projects at TiE Bangalore Global Summit 2025; Selected for state-level presentation after winning 2nd place at district exhibition (100+ teams)

Tomato Leaf Health Monitoring System

- Built CNN-based disease detection system using 10,000+ images, achieving 91% classification accuracy across multiple tomato leaf diseases
- Developed full-stack web platform enabling farmers to upload leaf images and receive instant predictions with confidence scores and treatment recommendations
- Reduced pesticide misuse through accurate disease identification, supporting sustainable agricultural practices

Anti-Sleep Alarm for Drivers

- Designed Arduino-based drowsiness detection system using IR sensors to monitor eye closure patterns
- Implemented safety mechanism with buzzer alerts and relay-controlled motor cutoff to prevent accidents

Shakti – Legal Awareness & Financial Inclusion Platform

- Built centralized web platform providing verified legal resources, women's rights information, government schemes, and financial aid access
- Designed intuitive UI with topic-based navigation and quick access to trusted information sources

ACHIEVEMENTS & AWARDS

- **Special Jury Award** – TiE Bangalore & Matrix Global Summit 2025 (200+ projects across Karnataka)
- **2nd Place** – District-Level Project Exhibition (100+ teams); Selected for State-Level presentation
- **1st Place** – JNNCE ISE Department Project Exhibition (50+ teams)
- **Arpitha Memorial Award** – 2nd Rank, Information Science & Engineering Department, AY 2024-25
- **Participant** – SHE Secure 2025, 24-hour National Hackathon organized by JNNCE and Hack2Skill

EXPERIENCE

IEEE Member   Mar 2025 – Present

- Active member contributing to technical discussions and professional development in computer science and engineering

HackYugma Organizing Committee Member, JNNCE   2025

- Served as core committee member for JNNCE's first state-level offline hackathon during 3-day technical fest
- Coordinated event logistics, mentored participants, and facilitated technical execution for 100+ attendees

CERTIFICATIONS

Data Analytics using Python (VTU) | Artificial Intelligence Fundamentals(IBM) | | Microsoft Power BI