

Tarun D R

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Objective

Aspiring Software Engineering student seeking an opportunity to work on real-world projects, enhance problem-solving skills, and contribute meaningfully to innovative technology solutions.

Technical Skills

- **Programming Languages :** Python, SQL, HTML, CSS
- **Tools & Frameworks:** Microsoft Power BI, MS Excel, Visual Studio Code, TensorFlow, Jupyter-Notebook
- **Core Concepts:** Machine Learning, Deep Learning, Data Analytics with Python

Areas of Interests

Software Engineering & Web Technologies | Artificial Intelligence & Machine learning | Deep Learning & Neural Networks

Academic Projects

AI Driven Detection and Classification of Cervical Cancer cells

- Developed a CNN-based cervical cancer detection model achieving 85%+ accuracy using 7,500 LBC images, improving early-screening efficiency by 40%.
- Designed and deployed both offline and web-based prototypes enabling image upload and automated reporting.
- Supported a role system where lab technicians upload images and doctors review and provide reports.

Tomato Leaf Health Monitoring System

- Built a CNN-based system using 10000+ images to detect and classify tomato leaf diseases with 91% accuracy.
- Developed a web platform where farmers can upload leaf images to get instant predictions, confidence scores, and remedies.
- Improved sustainable farming by reducing pesticide misuse and planned future upgrades like larger datasets, real-world testing, and environmental integration.

Additional Projects

Anti-Sleep Alarm for Drivers

- The system uses IR sensors and an Arduino Uno to detect prolonged eye closure, trigger a buzzer, and warn the user of drowsiness.
- If drowsiness continues, a relay cuts off the motor line for safety, with future improvements focused on smaller, cooler IR modules. Underground Watershed Management

Shakti - Legal Awareness & Financial Inclusion

- Shakti centralizes trusted legal and financial resources, including rights, procedures, women's aid, schemes, and loans
- The MVP provides a clean UI with topic hubs, verified sources, and quick access to

ACHIEVEMENTS

Special Jury Award at Global Summit by Tie-Bangalore & Matrix Awarded the Special Jury Award from 200+ projects across Karnataka for the AI-based cervical cancer project.	2025
2nd Place Winner at District-Level project exhibition. Winner among 100+ teams at the District-Level Project Exhibition and selected for the State-Level presentation for the AI-based cervical cancer detection project.	2025
1st Place at Project Exhibition by IS & E Dept. JNNCE Shivamogga Won 1 st place at Project Exhibition organized by ISE Dept. JNNCE for the Cervical cancer detection project among 50+ teams.	2025
Arpitha-Memorial Award at IS & E Dept. JNNCE Shivamogga Received the Arpitha Memorial Award for securing 2nd rank in the Information Science & Engineering Department at JNNCE during academic year 2024–25.	2025
SHE Secure Hackathon at AIML Dept. Shivamogga Participated in SHE Secure 2025, a 24-hour national hackathon organized by JNNCE in association with Hack2Skill	2025
HackYugma Organizer at IS & E Dept. JNNCE Shivamogga Served as a main committee member for HackYugma, JNNCE's first state-level offline hackathon held during the 3-day tech fest.	2025

Education

BE Jawaharlal Nehru New College of Engineering, Information Science & Engineering 8.9	2022-Present Shivamogga
PUC SAI PUC College 85.05	2022 Shivamogga
SSLC Sri Adichunchanagiri School Shimoga 78.09	2020 Shivamogga

Languages

English | Kannada | Hindi

Declaration

I hereby declare that the information given above is true to my best knowledge.