

# Tarun S Maidur



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GitHub



LinkedIn

## Education

**B.E., Computer Science (Artificial Intelligence)** | KLE Technological University, Hubballi 2021–2025

Result: **8.80 (CGPA)**

**12th Grade** | S P S M College Davanagere

2021

Result: **99.5%**

**10th Grade** | M.D.R.S. Bevinahalli

2019

Result: **96.64%**

## Technical Skills

- **Languages :** Java, JavaScript, C/C++, Python, DSA, HTML, SQL, Golang.
- **Frameworks:** React.js, Tailwind CSS, Spring Boot, Node.js, Express.js, Playwright.
- **Database:** MySQL, MongoDB.
- **Tools and Other Skills :** DSA, Git And Github, VS Code, .

## Experience

**SDE Intern** | Digital.ai

Feb 2025 – Present (Onsite)

- Designed and executed UI automation test cases using Playwright-JS with the Page Object Model (POM), validating dynamic workflows across multiple browsers.
- Automated backend tasks—such as XDS table/column creation and Datamap generation—using Python scripts and data from structured Excel sheets.
- Developed multi-step API chaining and integrated both UI and API automation into the production codebase and CI/CD pipelines.
- Benchmarked dashboard/dataset performance and replaced manual backend workflows with scalable Python automation to enhance efficiency.
- **Tech Stack:** Python, Playwright, JavaScript.

**Project Intern (PRISM)** | Samsung R&D Institute Bangalore

Sep 2023 – Aug 2024 (remote)

- Developed a content/noise-aware tone mapping algorithm for LDR displays.
- Trained semantic segmentation models (ResNet101-Dilated, PPM Deepsup) and compared with UNet, PSPNet.
- Designed a GCN pipeline for segmentation and tone mapping; achieved HyAB 4.62, PSNR 30.46 dB, SSIM 0.968.
- **Tech Stack:** Python, PyTorch.

## Major Projects

- **Food Bridge**



– Built FoodBridge, a full-stack food donation platform using React and Spring Boot, enabling seamless connections between donors, recipients, and delivery agents.

- Designed and implemented secure REST APIs with JWT authentication, integrating them into a responsive, role-based frontend dashboard.
- Automated the entire donation lifecycle—including creation, requests, delivery, and feedback—through end-to-end workflow integration.
- Engineered scalable backend data models (JPA, MySQL), dynamic frontend forms, and robust email notification (SMTP) for delivery and status updates.
- Applied best practices in modular architecture, error handling, and API consumption to deliver a reliable, maintainable production-ready application.
- **Tech Stack:** React, CSS, Spring Boot, MySQL

#### • Severity Calculation of Tar Disease



- Developed a deep learning model for early detection of tar disease in sorghum crops.
- Used convolutional neural networks (CNNs) to analyze crop image data and improve detection accuracy.
- Provided a reliable tool for farmers to manage and prevent crop diseases effectively.
- Research paper accepted at the 9th International Conference for Convergence in Technology (I2CT).
- **Tech Stack:** Python, PyTorch.

### Practice Projects

#### • Social Media



Full-stack social media platform (**Spring Boot**, React/Redux, Material UI). Features: authentication, posts, messages, stories, reels, notifications.

#### • FarmFriend



Platform for farmers to sell crop waste and receive personalized crop suggestions. Spring Boot backend, React frontend, marketplace and resource utilization tools.

#### • Result Analyser



MERN stack web application for course-wise student marks analysis with Chart.js visualizations for teachers/students.

### Certifications & Publications

- Problem Solving (Intermediate) [↗](#)
- SQL (Intermediate) [↗](#)
- Software Engineer Intern [↗](#)
- PRISM Internship Certificate, Samsung R&D [↗](#)
- **Research Paper:** Severity Calculation of Tar Disease – accepted at I2CT 2024 [↗](#)