

# K.YOGITHA

Final-year ECE student skilled in MySQL, programming, and software development. Experienced in embedded systems, automation, and full-stack development, with a passion for innovative technology solutions.

## Contact

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## Educational Background

### B.E in Electronics and Communication Engineering -2025

Sathyabama University  
CGPA: 8.5/10

## Projects

### Hospital Management System (SQL-based)

- Designed and implemented a Hospital Management System using MySQL. The project includes modules for managing doctors, patients, and appointments.
- Utilized SQL concepts such as joins, subqueries, aggregate functions, views, indexes, and stored procedures to efficiently store, retrieve, and manage data. This project helped demonstrate strong SQL skills, logical thinking, and understanding of relational databases.

### Arduine: Bomb & Landmine Detector

- Developed an Arduino-based embedded system using metal detectors, GPS, robotic arm, and camera for explosive detection and disposal.
- Designed for military defense, security applications, and archaeological safety operations.

### Arduino-Based River Cleaning Boat

- Designed an autonomous robotics system using ultrasonic sensors, water quality sensors, and IoT-based remote monitoring.
- Enables real-time pollutant detection and environmental cleanup with remote control capabilities.

### Plant Leaf Disease Detection Using CNN

- Developed a Raspberry Pi-based AI system using Convolutional Neural Networks (CNN) for image processing in agricultural automation.
- Improved crop health monitoring and precision agriculture, enabling early disease detection to minimize losses and optimize yield.

## Internship

- Java Development (Dec 2024 - Jan 2025)
- Web Development (Feb 2025 - Mar 2025)

## Skills

### Programming

- MySQL
- Python
- Java

### Web Development

- HTML
- CSS
- JavaScript

### Circuit Simulation

- Multisim

### Software Tools

- Microsoft Office
- VS Code
- Git Hub
- Adobe Photoshop
- MATLAB (Basics)

### Languages

- Tamil
- English

### Certification

- Web Development
- Post Graduation in Computer Application
- Java
- MySQL

## Soft Skills & Interest

- Strong problem-solving, analytical thinking, and decision-making skills. Experienced in project management, teamwork, and innovation.
- Skilled in hardware development, embedded systems, video editing, graphic design, and poster design.