Contact

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Chengalpattu

LinkedIn

GitHub

Code Buddies

Education

2021 - 2025

B.E in Electronics and Communication Engineering

Sathyabama Institute of Science and Technology

CGPA - 8.55

VS.Matriculation.Higher.Secondary. School

- 12th - 84 % (2021)
- 10th - 75 % (2019)

Certifications

- Python - Besant Technologies
- MySQL - Besant Technologies
- Google Data Analytics
- Microsoft Power BI
- Web Development
- Post Graduation in Computer Application
- Java

Language

- Tamil
- English
- Telugu

K.Yogitha

Data Enthusiast

Electronics and Communication Engineering graduate with practical experience in MySQL, Power BI, Python, and full-stack. Proficient in automation, sensor integration, and web-based solutions, with a growing specialization in data analytics and machine learning. Passionate about solving real-world problems through innovative, tech driven solutions that connect hardware with intelligent systems. Eager to bring data powered insights and engineering precision to dynamic, impactful projects.

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.

Smart Course Enrollment System

- Developed a Python-based course registration system using MySQL to manage student enrollments and course records.
- Built a Tkinter GUI for students to register, view available courses, and track enrollments efficiently.

Ardumine: 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 robotic 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

Skills

Programming

- MySQL (SQL)
- Python (Intermediate)
- Power BI
- Java (Basics)

Circuit Simulation

- Multisim

Software Tools

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