

# Shakthi Kalyan S

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## EDUCATION

### SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY

Tamil Nadu, India

M.Tech Computer Science and Engineering(Integrated)

Grad:Apr 2026 | Cum.GPA: 8.43 /10.0

### ADWAITH THOUGHT ACADEMY

HSC-2021 | Tamil Nadu, India

PERCENTAGE-93.1

### ADWAITH THOUGHT ACADEMY

SSLC-2019 | Tamil Nadu, India

PERCENTAGE-92.2

## LINKS

### TECH PROFILE

Github:// shakthikalyan

LinkedIn:// ShakthiKalyanS

LeetCode//Shakthi Kalyan S

GeeksForGeeks// SSK

## SKILLS

### LANGUAGES

Proficient: C | Java

Intermediate: Python | C++ | HTML  
CSS | JavaScript|R

### TOOLS & TECHNOLOGIES

GIT | Firebase | Spring Boot

React JS | Next JS | MongoDB

Amazon Web Services(AWS)

## COURSEWORK

### GRADUATE

Data Structures and Algorithms

Object-Oriented Programming

Relational Database Design

SQL Fundamentals

Artificial Intelligence (AI)

Machine Learning (ML)

Data Analysis

Cloud Computing

## EXPERIENCE

### TECHPLEMENT | PYTHON DEVELOPER INTERN

Dec 2024 – January 2025

- Developed an automated system for sending bulk personalized emails using the `smtplib` library, **custom email templates** to cater to **dynamic user data** ensuring efficient and reliable communication.
- Optimized the email sending process, **reducing operational time by 40%**, achieving a throughput of **500+ emails** per hour.
- Enhanced error handling and logging mechanisms, minimizing downtime and ensuring **98% delivery accuracy**.
- Tech Stack: Django, Python(`smtplib` , Logging) | Database: SQLite3

## PROJECTS

### PREDICTIVE ASSET MANAGEMENT SYSTEM

Dec 2023 – March 2024

- Developed a predictive maintenance system utilizing Machine Learning (ML) algorithms to forecast equipment failures in the construction industry. This reduced the manual effort by **100%**.
- Supported the Backend logic implementation using the Django framework, integrated machine learning models for predictive analytics, and **5+ third-party integrations for data visualization**.
- Outperformed existing methods with increased **accuracy by 45%**, resulting in **improved project timelines and cost savings by 70%**.
- Tech Stack: Django, Python, Scikit-Learn | Database: SQLite3

### DASHBOARD FOR REAL-TIME MONITORING OF CONSTRUCTION PROJECTS

Oct 2023 – Dec 2023

- Developed comprehensive dashboard, **WebSocket consumers** in Django to handle real-time updates for task status changes, resource allocation updates, and interactive visualization for enhanced data comprehension, which allowed users to manage over **500 tasks** simultaneously.
- Achieved an 85 % reduction** in project turnaround time, and improvised project efficiency, resulting in streamlined decision-making processes and minimized delays.
- Decreased project costs by 30%** through better financial management and cost control.
- Tech Stack: Django, Python, Chart.js | Database: PostgreSQL

## ACHIEVEMENTS

- Runner-up, PSG Kriya Event 2024
- Finalist, Smart India Hackathon ( SIH ) 2023

## CERTIFICATIONS

- J.P. Morgan Software Engineering Virtual Experience on Forage - July 2024
- Data Analytics Corporate Training - November 2024