

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: 8.35 /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: Python, Java, C++, SQL

JavaScript

Tools & Technologies: Django, ReactJS, Git, Postman API, Express, NodeJS, Docker, Kubernetes, Spring, NextJS, MongoDB, AWS S3, EC2, React Native

COURSEWORK

Data Structures and Algorithms
Object-Oriented Programming
Relational Database Design
SQL Fundamentals
System Architecture and Design
Full Stack Development
Software Development Life Cycle (SDLC)
Artificial Intelligence & Machine Learning
Microservices & Distributed Systems
Cloud Computing & Technologies

EXPERIENCE

TECHPLEMENT | PYTHON DEVELOPER INTERN

Dec 2024 – January 2025

- Ideated and developed an automated system for sending bulk personalized emails to cater to **dynamic user data** ensuring efficiency and reliability.
- Optimized the email delivery process, **reducing operational time by 40%**, achieving a throughput of **500+ emails** per hour.
- Enhanced debugging,scalable data storage and logging mechanisms for troubleshooting, minimizing downtime and ensuring **98% delivery accuracy**.
- Tech Stack: Django, Python(smtplib , Logging) | Database: SQLite3

PROJECTS

EPIDEMIC CYBER THREATS MODELLING AND ANALYSIS SYSTEM

Jan 2025 – Apr 2025

- Built a cyber threat simulation using the **SEIAR model** to analyze and predict the spread of network-based attacks.
- Integrated an **Artificial Neural Network** to process over **10,000 network traffic logs** in a large scale system, automatically detecting anomalies and classifying them into distinct infection states with **92% accuracy**.
- Visualized real-time threat propagation and alerts, which reduced incident response time by 40% and improved problem diagnosis by 60%.
- Tech Stack: Django, Python, Tensorflow | Database: PostgreSQL

PREDICTIVE ASSET MANAGEMENT SYSTEM

Dec 2023 – March 2024

- Advanced a versatile **Predictive Maintenance System** utilizing Machine Learning algorithm to forecast equipment failures. This reduced manual effort by **100%**.
- Incorporated the Backend logic 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

ACHIEVEMENTS

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