

# SIDDHARTH T

Software Engineer | AI & Distributed Systems

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## SUMMARY

Software Engineer with hands-on experience building scalable AI and computer vision systems. Proficient in Python, Java, and C. Strong foundation in data structures, algorithms, and distributed APIs. Adept at developing production-grade tools with OpenCV, PyTorch, and web-based deployment frameworks.

## EDUCATION

**BTech - Artificial Intelligence and Machine Learning**  
**Sri Shakthi Institute of Engineering and Technology**  
08/2023 - 05/2027    Coimbatore, Tamil Nadu, India

## PROJECTS

### Distributed Face Recognition & Admin Panel (FastAPI)

Web-based face recognition system integrated with an admin panel for managing datasets and identities.

- Served over 200 unique users in academic environments with facial authentication.
- Built REST APIs for scalable inference and data ingestion using FastAPI.

[github.com/sudo-sidd/Face\\_Gallery-Manager](https://github.com/sudo-sidd/Face_Gallery-Manager)

### Low-Resolution Face Attendance System

Multi-user facial recognition for real-time student attendance using OpenCV.

- Achieved 95% recognition accuracy across varied lighting and camera conditions.
- Supported concurrent recognition of multiple faces during classroom sessions.

[github.com/SaiDinakar/Student-Attendance](https://github.com/SaiDinakar/Student-Attendance)

### AI Prompt Evaluation System

Image comparison tool for evaluating similarity in generative prompt contests.

- Used SSIM and histogram analysis to deliver >90% evaluation accuracy.
- Built with OpenCV, scikit-image, and tkinter for interface and backend.

[github.com/sudo-sidd/Image\\_comparison\\_application](https://github.com/sudo-sidd/Image_comparison_application)

### CRM System for Box Manufacturing

Full-stack desktop CRM for customer management and logistics built with Django & Electron.

- Managed customer database, order flow, and resource tracking in real-time.

[github.com/sudo-sidd/CRM\\_django](https://github.com/sudo-sidd/CRM_django)

### Face Data Collection Tool

Python-based utility to collect and label facial image datasets.

- Integrated with recognition system backend for automated dataset registration.

[github.com/sudo-sidd/Face\\_Data\\_Collection-System](https://github.com/sudo-sidd/Face_Data_Collection-System)

## KEY ACHIEVEMENTS

- 200+ Students Supported** Face recognition system scaled to identify and verify over 200 academic users.
- 95%+ Face Accuracy** Achieved high recognition precision under real-time constraints with noisy inputs.
- Generative AI Evaluation** Delivered image comparison pipeline with 90%+ accuracy for AI prompting evaluations.

## TECHNICAL SKILLS

Python

Java

C

JavaScript

Linux

PyTorch

OpenCV

scikit-learn

pandas

numpy

FastAPI

Django

Electron

Node.js

Docker

Git

GitHub Actions

REST APIs

VSCode

## LANGUAGES

English

Proficient

Tamil

Native

## STRENGTHS

- ★ **Problem Solving** Strong algorithmic reasoning and analytical design under ambiguity.
- ★ **System Design** Practical exposure to scalable service design and multi-tier APIs.
- ★ **Adaptability** Agile learning in dynamic product and academic environments.