

# Sanjai K

+91-9385880097 — sanjaitksct@gmail.com — linkedin.com/in/sanjai-k2308

## Summary

A recent Computer Science and engineering graduate with a solid academic foundation and hands-on programming experience. Eager to contribute to innovative teams and support research and development initiatives through dedication and technical skills. Highly motivated to begin a professional career in a dynamic and growth-oriented organization.

## Technical Skills

**Languages:** Python, JavaScript

**Web Technologies:** Reactjs, Redux, Tailwind CSS, Bootstrap, HTML, CSS

**Database:** SQL

**Frameworks/Tools:** Figma, Excel, EasyOCR, OpenCV, YOLOv8

**Knowledge:** Github, TypeScript

## Internship Experience

### Machine Learning Intern – Vcodez, Chennai

May - Till Now

- Preprocessed datasets (25+ records), ensuring data quality for model training.
- Built and trained basic classification and regression models using Python libraries (scikit-learn, pandas).
- Evaluated model performance using metrics such as accuracy and precision, achieving up to 85% accuracy on supervised learning tasks.

### Web Designing Intern – Phoenix Softech, Madurai

July – Aug 2024

- Designed and developed responsive web pages using HTML, CSS, and Bootstrap, contributing to two live client projects.
- Utilized tools like Figma for prototyping and Adobe Photoshop for asset creation.
- Improved website load time by up to 25% through optimization of images and code.

### UI & UX Design Intern – VINSUP Infotech, Madurai

July 2023

- Assisted in designing wireframes and user flows for a client-facing web platform, focusing on improving usability and accessibility.
- Conducted basic user research, collecting feedback from 10+ users to identify areas for design enhancement.
- Collaborated with a team of 3 designers to iterate on prototypes, contributing to a 20% improvement in mockup approval rates from supervisors.

## Projects

### Voice Recognition and Command System for PC Control

Nov 2024

- **Developed 2-Step Voice Authentication:** Reduced unauthorized access by over 90%, significantly improving system security compared to standard voice assistants.
- **Achieved 95%+ Command Recognition Accuracy:** Utilized advanced deep learning, boosting accuracy in noisy environments and cutting response latency by 40%.
- **Integrated End-to-End Hands-Free PC Control:** Engineered a robust solution using Python, TensorFlow/PyTorch, and NLP frameworks for seamless device interaction.

### AI-based Traffic Surveillance for Violation Detection and E-Challan Issuance

May 2025

- **Automated Violation Detection:** Used **YOLOv8** to detect helmet, mobile use, and red-light violations in real time with no manual input.
- **95%+ Accuracy:** Integrated **Optical Flow**, **EasyOCR**, and **ANPR** for accurate speed and number plate recognition.
- **Instant E-Challan Issuance:** Linked with **RTO databases** to auto-send challans via **SMS/email**, ensuring fast and transparent enforcement.

## Education

### Theni Kammavar Sangam College of Technology

2021 – 2025

Bachelor of Engineering – Computer Science and Engineering

CGPA: 8.09/10

## Acheivements

- **Digital Marketing** – Aug 2023, NSE Academy (Naan Mudhalvan), Cert. No: TN/NM/NAL-NIRP96423
- **Data Analyst** – Mar 2025, ICT Academy (Infosys Foundation), Cert. No: G-2025-G4413-0017
- **Smart India Hackathon** - AI-based Traffic Surveillance for Violation Detection and E-Challan Issuance