

MADHUDHANUSU K

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SUMMARY

Final-year Computer and Communication Engineering student and backend-focused software engineer with hands-on experience in Java, Spring Boot, SQL, RESTful API development, and enterprise application development. Experienced in building secure, scalable backend systems, database schema design, and API integrations. Strong interest in Technology Consulting, Data Engineering, and applied AI, with practical exposure to computer vision and machine learning in real-world projects and internships.

INTERNSHIP EXPERIENCE

Graduate Intern – Mr. Cooper

(Jul 2025 – Aug 2025)

- Developed full-stack features using Spring Boot and React.
- Contributed to the development of enterprise-level backend services using Spring Boot and REST APIs, following SDLC and Agile practices.

R&D Intern – Sairam Techno Incubation Centre

(Jun 2025 – Jul 2025)

- Implemented AI models in Python for research projects..

Engineering Intern – AltrAI Technologies Pvt Ltd

(Jun 2024 – Jul 2024)

- Built a YOLOv8 - based cattle monitoring system with.
- Created and labeled custom datasets for livestock behavior tracking.

PROJECTS

CarePlus – Healthcare Platform

- Contributed as a Backend Developer to a healthcare platform, designing a Microsoft SQL Server Snowflake schema and implementing Hibernate/JPA for ORM.
- Built secure **RESTful APIs** using **Spring Boot** with JWT-based authentication for patient, appointment, and role management. **Link:** care-plus1.vercel.app

Cattle Monitoring System

- Developed a cattle monitoring system using **YOLOv8** to detect livestock behavior and health anomalies from video feeds, enabling real-time activity tracking and early anomaly detection to support improved livestock productivity **Link:** madhudhanushk-cattlemonitoringsystem.hf.space

EDUCATION

B.E. – Computer and Communication Engineering

2022 -2026

Sri Sairam Institute of Technology, Chennai

HSC – Bharani Park Matric Hr. Sec. School, Karur

2021 - 2022

SSLC – Bharani Park Matric Hr. Sec. School, Karur

2019 - 2020

TECHNICAL SKILLS

- Languages:** Java, Python, SQL, C.
- Backend:** Spring Boot, Spring Security, Hibernate/JPA, REST API.
- Frontend:** HTML5, CSS3.
- Databases:** MySQL, PostgreSQL, MS SQL Server, MongoDB.

CERTIFICATIONS

- Programming in Java – NPTEL
- Industrial IoT – NPTEL
- Software Conceptual Design – NPTEL
- Supervised Machine Learning (Regression & Classification) – Coursera
- Fundamentals of Computer Vision – Udemy

ADDITIONAL INFORMATION

Languages: Tamil, English

Publication: “Smart Diagnosis: Early Detection and Management of Plant Diseases” – IJRASET, 2025

Workshops & Competitions: IEEE Extreme 2023, Intl. Workshop: Data Science using Python–Sairam & Brainovision,2024

Volunteer & Leadership Activities: Agaram Student Volunteer, Event Organizer-Department Symposium CocoEnz-25