



KIRUTHIKA S

M.Tech Computer Science and Engineering | Full Stack & Machine Learning Enthusiast



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Coimbatore, TamilNadu

PROFESSIONAL SUMMARY

M.Tech Computer Science candidate with a strong foundation in Machine Learning, Data Science, and Full-Stack Web Development. Proven ability to translate complex data into actionable insights and build scalable web applications. Motivated to apply technical expertise and problem-solving skills to drive innovation and contribute to team success in a dynamic professional environment.

WORK EXPERIENCE

Sieger Spintech Equipments Pvt. Ltd Coimbatore

Web Development Intern JUN 2025 - DEC 2025

No Code Platform

- Developed a scalable no-code platform that converts drag-and-drop designs into production-ready Angular apps, reducing manual UI development effort.
- Engineered a JSON-based metadata architecture for dynamic, real-time generation of pages, components, layouts, themes, and data bindings.
- Implemented a custom JSON-to-Angular compiler, programmatically generating Angular components, services, routing, and styles.
- Built visual backend logic builders (API Node, Query Builder, Data Transform, Conditional Logic) for complete, code-free application workflows.
- Created a runtime preview engine for instant testing and validation of Angular applications.
- Designed drag-and-drop UI canvas features using Angular CDK, supporting nested components, layout management, and complex copy/paste.
- Developed reusable industrial dashboard components (charts, tables, cards) with live data integration.
- Collaborated with a cross-functional agile team of 5+ engineers, actively participating in daily stand-ups and sprint-based development cycles.
- Supported team members by automating tasks, reducing their workload, and allowing focus on high-priority assignments.
- Applied learned engineering concepts to solve real-world problems within an industry setting, analyzing issues and developing team-based solutions.

PROJECTS

Task Management System

- Built a full-stack task management application using Angular, Node.js, Express, and MySQL.
- Developed APIs for CRUD operations and designed a responsive UI with Bootstrap.

Credit Card Fraud Detection Using Deep Learning

Implemented LSTM and Autoencoder models on a Kaggle dataset , achieving 99.2% precision on imbalanced data.

Web Traffic Classification Using Deep Learning

- Built a CNN-based classification model to extract spatial traffic patterns, achieving ~94% accuracy. Performed data preprocessing and evaluated using precision, recall, and confusion matrix.

SKILLS AND TOOLS

Programming Languages: Python, HTML, CSS

Libraries/Frameworks: Angular, Node.js, Bootstrap , Express.js

Tools / Platforms: Git, Jira, Postman, VS Code

Databases: MySQL

AWARDS & ACHIEVEMENTS

- Awarded Best Library User
- Participated in the Smart India Hackathon

CERTIFICATIONS

Python Basics - HackerRank

Angular Basics - HackerRank

React Basics - HackerRank

Machine Learning Foundations - Udemy

MERN Stack - Udemy

EDUCATION

M.Tech Computer Science and Engineering(Integrated 5 years) 2022- 2027

Sri Ramakrishna Engineering College, Coimbatore, Tamilnadu

CGPA: 8