

# JAYANTHAN SENTHILKUMAR

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## PROFESSIONAL SUMMARY

Product-focused Software Engineer crafting data-driven experiences grounded in proven engineering traditions. Skilled in distributed systems and full-stack development, I blend analytical focus with creative problem-solving to build scalable, client-centric applications aligned with AI-driven transformation goals.

## TECHNICAL HIGHLIGHTS & SKILLS

**Languages:** Python, HTML, CSS, JavaScript, PHP

**Frameworks:** Laravel, Flask

**Tools:** GitHub, Git, MySQL, REST APIs

## EDUCATION

**M. Kumarasamy College of Engineering**

2022 - 2026

*B. Tech - Artificial Intelligence and Machine Learning*

CGPA - 8.090 as of 6<sup>th</sup> semester

**Relevant Coursework:** Database Management Systems

## INDUSTRIAL EXPERIENCE

**Software Developer Trainee - Technology Innovation Hub, MKCE** | April 2024 - July 2025

- Built **scalable distributed** backend with PHP & SQL, reducing latency by **30%** and throughput.
- Developed RESTful APIs to improve communication and system reliability by **40%**.
- Optimized queries and indexing, cutting processing time by **35%** and enhancing performance.

## PROJECTS

**SupriAI - AI Driven Learning Recommendation System** (*Flask, Python-ML, SQLite, JS*)

- Built a scalable AI-powered learning analytics platform with real-time dashboards, improving **recommendation relevance by 40%** and reducing response **latency by 60%**.
- Engineered predictive models to analyze user engagement, learning trends, and activity patterns, boosting learner consistency and **engagement by 35%**.

**Cargo Fleet Management System** (*Laravel, IoT, Python-ML, Arduino*)

- Designed an IoT-based fleet system with ML-driven load prediction, **improving utilization by 55%**.
- Implemented real-time tracking and safety monitoring pipelines, **improving transport reliability and reducing logistics delays by 35%**.

**KR Connect - Smart College ERP** (*HTML, CSS, JS, PHP, Ajax, jQuery, MySQL*)

- Developed core modules for **Discipline** and **Grievance Management** using PHP, Ajax, jQuery, and MySQL, streamlining issue tracking and **student record updates by 50%**.
- Built real-time dashboards using **HTML, CSS, JS**, boosting load speed and **efficiency by 45%**.

## CERTIFICATIONS & ACHIEVEMENTS

- **NPTEL - Python for Data Science, Joy of Computing using Python, HR Analytics, I 4.0 IoT.**
- GitHub Foundations | **Student of the Month** - Technical Leadership & Performance.
- **Finalist - PECHACKS 2.0 Hackathon** | **Guest Lecturer - Git vs GitHub Workshop** (PEC Chennai)