



D K VIJENDRA KUMAR

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Summary

Full-stack MERN developer and engineering student skilled in building responsive web applications, integrating RESTful APIs, and writing clean, scalable code. Focused on performance, usability, and delivering user-centric solutions in collaborative environments.

Skills

Languages: JavaScript, TypeScript, Python, C/C++

Fundamentals: OOPs, Data Structures & Algorithms, REST APIs

Frontend: React.js, HTML5, CSS3, Tailwind CSS

Backend: Node.js, Express.js

Databases: MongoDB, SQL

Tools: Git, GitHub, OpenCV, PyTorch, Pandas, NumPy

Experience

Full-Stack AI Intern

May 2025 – June 2025

IIITDM Kancheepuram

- Utilized a pre-existing sensor setup to collect and analyze ~500 milk samples for fat content estimation.
- Built regression models (linear & polynomial), achieving **91% accuracy**, validated against Gerber method.
- Developed a full-stack application with Express.js APIs and React.js UI for real-time prediction and visualization.

Projects

MERN Task Distributor – Full-Stack Web App

 GitHub

React.js, Node.js, Express.js, MongoDB, JWT

- Engineered **3-tier hierarchy system** (Admin→Agent→Sub-agent) with role-based CRUD operations
- Implemented **JWT authentication** and granular access controls for secure multi-level access
- Automated **CSV/XLSX bulk upload** where Admin assigns to Agents, and Agents distribute to Sub-agents
- Built **real-time admin dashboard** for system-wide monitoring and duplicate detection
- Developed **responsive agent portals** with task management and sub-agent administration
- Deployed with **MongoDB Atlas** and optimized REST APIs for scalable performance

AI Appointment Scheduler – NLP & OCR System

 GitHub

Node.js, Python, Flask, EasyOCR

- Built intelligent system processing natural appointment requests using OCR and entity extraction with 85%+ accuracy.
- Architected microservices with Node.js API gateway and Python AI services for text/image input processing.
- Implemented date/time normalization, confidence scoring, and guardrail system for ambiguous inputs.
- *Tech Stack: Node.js, Express, Python, Flask, EasyOCR, REST APIs, Microservices*

MERN Book Review App – Full-Stack Web Application

 GitHub

React.js, Node.js, Express.js, MongoDB, JWT

- Developed a full-stack MERN application enabling users to register, log in, browse books, and write/edit/delete reviews with JWT-secured authentication.
- Built personalized dashboards for review history and implemented admin-only book management (Add/Edit/Delete).
- Integrated protected routes, search functionality, and genre-based filters for enhanced user experience.
- *Tech Stack: React.js, Node.js, Express.js, MongoDB, JWT, Axios, React Router, Custom CSS*

Awards & Certifications

- **NPTEL Certifications (2025):** Silver medal in 'Programming in Java' and 'Joy of Computing using Python'.
- **National Road Safety Hackathon (2024):** Certificate from the National Highways Authority of India.
- **Power BI for Data Visualization:** Completed Power BI workshop and earned certification.

Education

IIITDM Kancheepuram

Expct: 2026

College, Chennai