

Venkata Kartheek Sanka

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PROJECTS

SmartAgriPlatform

[GitHub](#)

- Technologies: React.js, Node.js, Python, Flask, TensorFlow, NumPy, Pandas, MongoDB, RESTful APIs.
- Developed a full-stack Smart Farming Platform leveraging Machine Learning for data-driven insights in crop selection, disease detection, smart irrigation planning, and price prediction, empowering proactive farmer decision-making.
- Architected a modular and scalable backend using Flask (Python) and Node.js with MongoDB for data persistence and future extensibility.

Her-Haven - Women's Wellness and Empowerment Platform

[GitHub](#)

- Technologies: React.js, Node.js, Three.js, Python, Flask, TensorFlow, NLTK, MySQL, RESTful APIs.
- Developed a multi-component web platform integrating AI-powered solutions, including a 3D AI Therapy Avatar, personalized health tracking, an AI Law Bot, and private community chat with an integrated steganography module.
- Engineered a robust health tracking system to generate tailored monthly reports on lifestyle, nutrition, and mental/physical wellness, demonstrating expertise in data analysis and user-centric design.

Real-time Facial Recognition Attendance System

[GitHub](#)

- Technologies: React.js, Python, Flask, Numpy, Pandas, TensorFlow, OpenCV, MySQL.
- Architected and implemented a real-time facial recognition attendance system, featuring integrated liveness detection to prevent spoofing, alongside robust backend APIs and intuitive user interface.
- Led the end-to-end development and deployment, encompassing time-slot-based attendance tracking, automated absentee email notifications, and dynamic Excel data export.

WORK EXPERIENCE

Research Intern

June 2025 - present

Leading innovative research on "GenAI Powered Legal Assistance with Dual LLM Architecture" focusing on developing advanced AI/ML solutions to revolutionize LegalTech and improve access to legal insights.

EDUCATION

2023 - 2027 B.Tech in CSE at **SRM University**

(GPA: 9.0/10.0)

Coursework: Web Development, Data Structures Algorithms, Artificial Intelligence, Machine Learning.

AWARDS & RECOGNITION

- Awarded the winner position in the GeeksForGeeks Hackathon Organised by SRMAP. [link](#)
- Achieved Runner-up position in the Andhra University AI Hackathon. [link](#)

SKILLS

- **Programming Languages:** Python, JavaScript, HTML5, CSS3, C++.
- **Frontend Development:** React.js, Tailwind CSS.
- **Backend Development:** Python(Flask, Django), Node.js(Express.js)
- **Databases:** PostgreSQL, MySQL, MongoDB.