

UDATA SRAVANTHI

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LinkedIn

GitHub

Portfolio

PROFESSIONAL SUMMARY

Innovative and impact-driven **AI & Web Development enthusiast** with hands-on experience in designing real-time AI systems, full-stack web applications, and computer vision-based automation projects. Proven record of leading technology initiatives, winning national-level hackathons, and developing scalable, user-centric solutions. Skilled in **Python, Flask, ML model development, and web design**. Passionate about solving real-world challenges using intelligent AI-driven solutions and contributing to high-impact projects in fast-paced environments.

EDUCATION

- **Kalasalingam Academy of Research and Education**
B. Tech - Computer Science and Engineering - AI & ML (2022 – present)
Current CGPA: 8.85
Location: Srivilliputhur, Tamil Nadu
- **Sri Chaitanya Jr. Kalasala**
Higher Secondary Education (2020-2022)
Percentage: 91.5%
Location: Rajahmundry, Andhra Pradesh
- **Sri Chaitanya Em High School**
Secondary School of Education (2019-2020)
Percentage: 98.1%
Location: Tanuku, Andhra Pradesh

CORE TECHNICAL COMPETENCIES

- **Programming Languages:** Python, HTML/CSS, JavaScript, Java (Basics)
- **Frameworks & Tools:** Flask, OpenCV, MediaPipe, Git, VS Code, PyCharm
- **Domains:** Machine Learning, Web Development, Data Analysis
- **Soft Skills:** Communication, Leadership, Collaboration, Time Management
- **Languages:** Telugu, English

PROJECTS

- **Agrovista: AI-Powered Crop and Disease Prediction with E-Commerce Integration**
 - Designed and implemented a machine learning-based agricultural advisory system predicting crop yield and disease risk with 97% accuracy and added digital commerce functionality for direct agricultural product purchase.
 - **Tech Stack:** Python, Flask, ML (RandomForest, CNN), Data Analysis
- **NrityaAI: Real-Time Bharatanatyam Hand Mudra and Facial Expression Recognition**
 - Created a cultural AI-based recognition system using image processing for real-time mudra detection using video input to support heritage preservation.
 - **Tech Stack:** Python, MediaPipe, OpenCV, Computer Vision
- **DriveLock Pro: AI-Based Driver Safety and Alert System**
 - Engineered a safety system using computer vision for lane detection, pothole monitoring, and real-time driver fatigue detection (sleep vs awake) with automated alert response to enhance autonomous driving.
 - **Tech Stack:** Python, OpenCV, ML, Real-Time Processing Algorithms
- **SmartGreen: IoT Enabled Smart Agriculture Monitoring System**
 - Developed automated IoT-based agricultural monitoring solution including real-time soil moisture tracking and auto-irrigation triggering to optimize resource usage.
 - **Tech Stack:** IoT Sensors, Python, Flask, Automation Framework
- **FiTrace: Web-Based Fitness Tracking Application**
 - Built a responsive fitness tracking web platform with date-wise monitoring enabling progress tracking and habit formation.
 - **Tech Stack:** HTML, CSS, JavaScript, Python

- **AI Health Predictor: Symptom-based Medical Condition Analysis**
 - Created a predictive machine learning model for identifying possible health conditions with personalized recommendations using mapped symptom data.
 - **Tech Stack:** Python, Flask, ML, Decision Systems
- **MartMate: Smart Inventory and Expiry Management System**
 - Built a web application for real-time monitoring of product expiry status, smart freshness alerts, and cart-based ordering system to reduce product waste and streamline stock management.
 - **Tech Stack:** Python, Flask, HTML, CSS, JavaScript

EXPERIENCE

- **Project Intern - iProAT Solutions** (Feb 2025 – Aug 2025 | Remote)
 - Developed an AI-powered driver monitoring system with fatigue detection and alert processing using real-time AI computation and performance optimization.
 - Improved live model inference speed and operational efficiency through algorithm tuning and AI model enhancement.
- **Content Writing Lead - Google Developer Groups On-Campus** (Apr 2024 – June 2025 | Hybrid)
 - Created event-based content and documentation for workshops, hackathons, and key speaker sessions, effectively capturing event impact and achievements.
 - Organized and contributed to multiple tech events, resulting in over 25% rise in student engagement and participation.
- **Campus Ambassador - GirlScript Summer of Code - GSSoC** (June 2025 – Sep 2025 | Remote)
 - Promoted open-source participation, mentored new contributors, and collaborated on software development using open-source methodologies.
- **Artificial Intelligence Intern – Teachnook** (Aug 2023 – Sep 2023)
 - Gained hands-on experience in AI & ML model development and implemented a real-time AI project as part of internship deliverables.
 - Applied theoretical concepts to practical use cases, strengthening core understanding of AI deployment.

CERTIFICATES

- Web Development (HTML, JavaScript, Python) – Delta Computers
- Python & Problem Solving – HackerRank
- Database Management Systems – CodeChef
- Artificial Intelligence – Teachnook (in collaboration with Wissenaire, IIT Bhubaneswar)
- Microsoft Azure AI Fundamentals – Specialization in Computer Vision

ACHIEVEMENTS

- **Winner** – IBM Poster Presentation (AI for Pre-Term Child Birth Prediction)
- **Runner-up** – IEEE Paper Presentation Contest (Blockchain and Cryptography)
- **2nd Runner-up** – CRYPTON 2025 Hackathon
- **3rd Runner-up** – INNOV-AI 24-Hour Hackathon

PUBLICATIONS

- Automated Real-Time Hand Gesture Detection for Bharatanatyam Dance
- Integrating Deep Learning and Predictive Modeling for Smart Agriculture: Disease Detection and Yield Estimation