

# UDATA SRAVANTHI

Nellore, Andhra Pradesh

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[LinkedIn](#)

[GitHub](#)

[Portfolio](#)

## OBJECTIVE

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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.

## EDUCATION

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**Kalasalingam Academy of Research and Education**

2022 – Present

B. Tech / CSE-AIML, 8.85 CGPA

**Sri Chaitanya Jr. Kalasala**

2020 – 2022

MPC, 91.5%

## SKILLS

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**Programming Languages:** Python, HTML/CSS, SQL, JavaScript, Java (Basics)

**Frameworks & Tools:** Google Cloud, Flask, OpenCV, MediaPipe, Git, VS Code, PyCharm

**Domains:** Machine Learning, Web Development, Data Analysis

**Soft Skills:** Communication, Leadership, Collaboration, Time Management

**Languages:** Telugu, English

## EXPERIENCE

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**Project Intern - iProAT Solutions**

Feb 2025 – Aug 2025

- 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

- 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.

**Artificial Intelligence Intern – Teachnook**

Aug 2023 – Sep 2023

- Worked on 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.

## PROJECTS

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**Agrovista: AI-Powered Crop and Disease Prediction with E-Commerce Integration ([Github](#))**

- Built and deployed a machine learning-based agricultural advisory system predicting crop yield and disease risk 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 ([Github](#))**

- 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** ([Github](#))

- 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** ([Github](#))

- 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** ([Github](#))

- Developed 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** ([Github](#))

- 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** ([Github](#))

- Developed 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

## **CERTIFICATES**

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- Web Development – Delta Computers
- Python & Problem Solving – HackerRank, Delta Computers
- Database Management Systems – CodeChef
- Introduction to Generative AI – Google Cloud
- Artificial Intelligence and Machine Learning – Teachnook
- Microsoft Certified: Azure AI Fundamentals (AI-900) – Microsoft

## **ACHIVEMENTS**

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- **Winner** – IBM Poster Presentation (AI for Pre-Term Child Birth Prediction)
- Secured **Runner-up** in the IEEE Paper Presentation Contest on Blockchain and Cryptography.
- Secured **2nd Runner-up** in the CRYPTON 2025 Hackathon, which led to an internship opportunity at iProAT Solutions.
- Earned over 20+ Qwiklabs badges demonstrating proficiency in cloud technologies ([Profile](#))
- Published a research article on hand gesture detection for Bharatanatyam dance.

## **PUBLICATIONS**

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- Automated Real-Time Hand Gesture Detection for Bharatanatyam Dance ([IEEE Xplore](#))
- Integrating Deep Learning and Predictive Modeling for Smart Agriculture: Disease Detection and Yield Estimation