VENKATA LASYA SRAVANTHI MATURI

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EDUCATION

B. Tech in Artificial Intelligence and Machine Learning	**CGPA: 8.26**
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	2022-26

Class 12	**Percentage: 88.6**
Sri Viveka Junior College, Kandukur (State Board)	2021-22

Class 10	**Percentage: 96**
Ongole Oxford English Medium High School, Kandukur (State Board)	2019-20

PROJECTS

AI-Powered Spectral Crop Management System

- Developed an AI-driven crop monitoring system using satellite and UAV spectral imagery, remote sensing, and machine learning (Random Forest, k-NN, CNNs), improving crop health prediction accuracy by up to 87%
- Processed and calibrated 1,000+ raw spectral images to reduce noise and normalize data, resulting in 25% improvement in analysis reliability
- Implemented predictive analytics for early disease detection (92% accuracy), yield estimation ($\pm$10% variance), and resource optimization, reducing pesticide usage by 15%
- Designed a responsive user interface using HTML, CSS, JavaScript, and integrated with a Python (Flask) backend, enabling real-time visualization for over 500 active users, resulting in a 30% improvement in user engagement.

Railway Reservation System

- Developed a full-stack web-based platform for train reservations, allowing over 100 users to search trains, book/cancel tickets, and track booking status in real time, improving booking efficiency by 40%.
- Built and optimized backend databases to manage train schedules, seat availability, and passenger records, improving booking efficiency by 40%
- Deployed a fully functional live system after rigorous QA testing and hosting setup, achieving 99.9% uptime post-launch
- Increased platform visibility and traffic by 60% through targeted digital marketing strategies and social media integration

SKILLS

Technical:
Python, Java, HTML, CSS, JavaScript, SQL

Professional:
Communication (Written & Verbal), Leadership & Team Management, Strategic Thinking

VOLUNTEERING AND POSITIONS

National Service Scheme
- Volunteered with orphanages and charitable trusts, supporting community welfare initiatives and organizing donation drives.
- Participated in 3 official parades as part of the NSS Parade Contingent, representing the institution with discipline and teamwork.

Event Management
- Led the planning and execution of various technical and non-technical events, including university hackathons, contributing to a vibrant and collaborative campus culture.
- Hosted over 5 major campus events as emcee, effectively engaging audiences and promoting student involvement across diverse activities.

Active Participation in University Events, Games & Workshops
- Engaged in various intra-college technical, cultural, and sports events, showcasing versatility and team spirit.
- Contributed in team-based games and activities that required organizing tasks, working with others, and meeting deadlines.

STRENGTHS

- Diligence
- Flexibility
- Reasoning
- Team Collaboration
- Leadership Ability

LANGUAGES

Telugu   English   Tamil   Hindi

ACHIEVEMENTS

- Winner | Kabaddi game (2020)
- Winner | Science Expo (2020)
- 2nd place | Kho-Kho game (2023)
- 2nd place | INCHO Olympiad (2021)