SRAVANA CHARAN

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SUMMARY

Aspiring Machine Learning engineer with a strong foundation built through hands-on projects and real-world applications. Experienced in deep learning and computer vision tasks like plant disease detection and interactive virtual painting. Focused on mastering core ML concepts and staying updated with the latest advancements in AI.

INTERNSHIPS & RESEARCH EXPERIENCE

Database Management Intern , RINL Visakhapatnam   may 2025 - june 2025

➔ Gained hands-on experience in Oracle Database Administration by managing production databases, monitoring performance, and performing backup and recovery operations.
➔ Assisted with data migration and user access management to ensure secure and efficient data handling.

ML Research Trainee, CVML Summer Course   July 2024 - Aug 2024

➔ Built a real-time air-drawing app using OpenCV & MediaPipe with gesture-based drawing, color switching, and canvas clearing.
➔ Optimized gesture recognition for smoother interaction, highlighting skills in computer vision and Human-Computer Interaction

Projects

AI-powered Plant Disease Detection System

➔ Developed a real-time plant disease classification system using MobileNetV2 with early exit architecture, achieving 88% accuracy. Enabled faster predictions by exiting early when confident, reducing computational cost and improving efficiency on edge devices by up to 60%.

Virtual Painter Using Hand Gestures

➔ Engineered an air-drawing application using OpenCV and MediaPipe, enabling real-time hand gesture recognition and touch-free drawing, achieving a 95% gesture recognition accuracy rate.

EDUCATION

Bachelor of Technology in Computer Science   Nov 2022 - Present
NIST University , Berhampur
➔ CGPA 8.95
➔ Relevant Coursework: Data Structures, Object Oriented Programming , Machine Learning, Operating Systems , Database Management System , Software engineering.

ADDITIONAL INFORMATION

➔ **Technical Skills:** Languages & Tools: C , Python , OpenCV, Media Pipe, TensorFlow/Keras, NumPy/Pandas, Scikit-learn ,Matplotlib Seaborn, MySQL , Git, Jupyter Notebook, Google Collab, Html , CSS , React , Cloud Computing : AWS (S3, EC2, Bedrock)
➔ **Certifications:**
 1. AWS Cloud Foundations – Amazon Web Services
 2. Machine Learning for NLP – Amazon Web Services
 3. Python Essentials - Cisco Network Academy
 4. AI Fundamentals - IBM Skills Build
➔ **Leadership/Activities:** Core Member, Electronics & Hobby Club (2023–2026); Organizer, IoT Workshop for juniors on hands-on IoT applications