

SRAVANA CHARAN

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Education

National Institute of Science and Technology, Berhampur
B.Tech in Computer Science with CGPA: 8.88

Nov 2022 - Present

Summer Course

CVML Summer Course

July 12, 2024 – August 1, 2024

- Developed a CNN-based "Handwritten Language Recognition System," gaining hands-on experience in computer vision and language processing.

IoT Summer Course

June 1, 2023 – June 23, 2023

- Designed an IoT-based "Smart Irrigation System" using sensors, actuators, and cloud monitoring for automated watering.
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Technical Skills

- Programming Languages: C, Java, Python
 - Web Development: HTML, CSS, JavaScript, React (with Vite)
 - Machine Learning & Tools: TensorFlow, Keras, OpenCV
 - Data Science: Data preprocessing, data visualization, NumPy, Pandas, Matplotlib, model evaluation
 - Cloud Computing: AWS (S3, EC2, Bedrock)
 - Data Structures & Algorithms: Practiced DSA using Python
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Projects

AI-powered Plant Disease Detection System

- MobileNetV2-based AI system classifying 200+ images/min with 88% accuracy, cutting manual inspection time by 60%.

English Hand Digit Recognition System

- ML-based recognition system processing 150+ digits/min, reducing errors by 75%.

Amazon Laptop Price Dataset (Kaggle)

- Built and published a structured dataset of Amazon laptop listings via API, performing data cleaning and NLP-based feature engineering (Brand, Category) for price prediction and classification tasks.
 - Enhanced skills in real-world data processing and API integration. [<https://lnkd.in/gRj8KqRt>]
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Positions of Responsibility

- Core Member, Electronics and Hobby Club | 2023 – 2026
- Organizer, IoT Workshop for Juniors | Organized an IoT workshop for junior students, introducing key IoT concepts and hands-on applications.