

Malla Sujith Vaishnav

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SUMMARY

Passionate machine learning enthusiast with proven hands-on experience in machine learning and deep learning using Python and TensorFlow. Skilled in building and deploying intelligent solutions to tackle real-world challenges. Driven by curiosity and continuous learning, I thrive in collaborative and fast-paced environments, with a strong focus on innovation, mentorship, and impactful problem-solving.

EDUCATION

Indian Institute of Information Technology, Sri City <i>B.Tech in Artificial Intelligence and Data science</i>	2023 - 2027
Resonance Jr College, Vijayawada <i>Intermediate in MPC</i>	2021 - 2023

TECHNICAL SKILLS

Programming Languages	Python (NumPy, Pandas, scikit-learn, TensorFlow), C, R, HTML
Platforms	Microsoft Windows, Ubuntu
Databases	MySQL
Machine Learning	Supervised and Unsupervised Learning, Neural Networks (ANN, CNN, RNN), Object Detection (YOLO), and familiar basic Reinforcement Learning

EXPERIENCE

Core Member, Epoch IIITS <i>Computer Vision Domain</i>	2024 - 2025
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PROJECTS

Hear The Image	Repository — Demo
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- Developed an assistive application that converts images into descriptive audio outputs for visually impaired users.
- Integrated a pretrained image captioning model to generate meaningful text descriptions from uploaded images.
- Implemented gTTS functionality to transform generated captions into natural-sounding audio.
- Built a basic prototype with a simple web interface.

Plant Leaf Disease Detection	Repository
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- Developed a CNN-based classifier using MobileNetV2 to detect plant leaf diseases from RGB images.
- Applied data augmentation (rotation, zoom, flip) via `ImageDataGenerator` to enhance model generalization.
- Fine-tuned MobileNetV2 with transfer learning; trained top layers using Adam optimizer and cross-entropy loss.
- Optimized performance through validation and hyperparameter tuning; evaluated with precision, recall, and F1-score.