

# Malla Sujith Vaishnav

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## SUMMARY

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Motivated and curious learner with practical experience in machine learning and deep learning using Python and TensorFlow. Strong foundation in building ML models and applying them to real-world problems. Eager to contribute to innovative projects, collaborate with experienced teams, and grow through hands-on experience in a fast-paced environment

## EDUCATION

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

## TECHNICAL SKILLS

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Programming Languages	Python (NumPy, Pandas, scikit-learn, TensorFlow), C, 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

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<b>Core Member, Epoch IIITS</b> <i>Computer Vision Domain</i>	2024 - Present
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## PROJECTS

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<b>Plant Leaf Disease Detection</b>	<a href="#">Repository</a>
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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.

<b>Bird Voice Recognizer</b>	<a href="#">Repository</a>
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- Built a machine learning pipeline to classify bird species from audio recordings using the BirdCLEF 2022 dataset.
- Preprocessed and extracted features such as MFCCs from .ogg audio files using Librosa, and applied SMOTE to handle severe class imbalance across 150+ bird species.
- Trained and evaluated a Decision Tree Classifier, achieving efficient and interpretable bird species prediction based on the extracted acoustic features.