

# Thogata Madam Hari Ram

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## Education

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JNTU Anantapur, B.Tech in Computer Science

Dec 2021 – April 2025

- GPA: 7.94/10.0
- **Coursework:** Operating Systems, Computational Theory, Data Structures and Algorithms

## Experience

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**Machine Learning Intern**, Apple – Slash Mark IT Solutions

May 2024 - July 2024

- Built a spam classifier using Naive Bayes and SVM models on a dataset of over 5,000 emails; achieved 95
- Implemented an LSTM-based time series model using PyTorch to predict stock prices based on historical market data and technical indicators, achieving a MAPE of 3.2
- Trained a logistic regression and XGBoost model on telecom customer data to predict churn, reaching an F1-score of 0.82; used SHAP for model interpretability.

**Deep Learning Intern**, – IIITDMK, Kurnool

Dec 2024 – April 2025

- Developed a UAV-based system for drought monitoring using multispectral imaging and deep learning; trained CNN models to detect drought stress in crops with 92
- Categorized field areas into Healthy, Moderate, Sparse, and Stressed vegetation using VARI thresholds.
- Quantify class-wise vegetation area and generate drought severity reports and visualizations.  $\mathcal{O}(n^2)$  to  $\mathcal{O}(n \log n)$
- The UAV missions returned a strong, high-resolution dataset of georeferenced RGB imagery. The dataset was georeferenced and used as input to the VARI-based vegetation classification. The field data gathered served as the key enabler for localized drought assessment with enhanced spatial detail and timeliness.

## Projects

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**Leaf Agri App**

github.com/hariram130303/leaf

- Leaf-AgriApp is a mobile application designed to assist farmers with AI-powered agricultural support. It features a conversational chatbot for crop guidance, deep learning-based plant disease detection through image analysis, and real-time mandi (market) price updates.
- Tools used: Python, Flask

**Music Recommender System**

github.com/hariam130303/Music

- The Music Re-commender project is a machine learning-powered system designed to provide personalized music recommendations.
- Tools used: Python, Machine Learning

**Youtube Downloader Bot**

github.com/hariam130303/Bot

- The YouTube Downloader Bot is a Telegram bot developed using Node.js that enables users to download YouTube videos directly through Telegram. By sending a YouTube link to the bot, users can receive the corresponding video file within the chat interface.
- Tools used: Javascript, Node.js

## Technologies

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**Languages:** Python, HTML, CSS, Javascript, SQL

**Technologies:** React.js, Machine Learning, Flask