

# Koushik Asrith Mulavisala

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Asrith's github | Asrith's linkedin | Asrith's Portfolio

## Career Objective

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Aspiring Machine Learning Engineer and Computer Science student with a solid foundation in Python, machine learning algorithms, and model deployment. Passionate about building intelligent, data-driven solutions that solve real-world problems. Seeking an entry-level role or internship to apply ML and data science skills, contribute to collaborative agile teams, and grow in a dynamic, innovation-focused environment.

## Technical Skills

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**Languages:** Python, Java, c++

**Database:** MongoDB, MySQL

**FrontEnd:** Streamlit, Flask, Netlify

**Version Control:** git for version control and github for version collaboration.

**Tools:** Power BI, Excel, MS Word

**Concepts:** Machine Learning, EDA, Data Visualization, Deep-learning

## Projects

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### Crop Recommendation System with Machine Learning

GitHub Live Demo

- Built a predictive web application using Flask and scikit-learn to recommend suitable crops based on soil composition and climatic conditions.
- Trained and deployed classification models leveraging agricultural datasets for high-accuracy recommendations.
- Designed an intuitive user interface to collect key agricultural inputs (e.g., Nitrogen, Phosphorus, pH, Temperature, Humidity).

### Heart disease prediction with Machine Learning

GitHub

- Built and evaluated multiple supervised machine learning models including Logistic Regression, Decision Tree, Random Forest, Extra Trees, K-Nearest Neighbors, and Gaussian Naive Bayes using scikit-learn.
- Performed training and testing using consistent preprocessing to ensure fair model comparison.
- Generated confusion matrices and classification reports for each model to extract key metrics like accuracy, precision, recall, F1-score, specificity, and balanced accuracy.
- Visualized ROC curves for all models to compare tradeoffs between sensitivity and specificity across different thresholds.
- Drew insights on model selection by interpreting evaluation results, identifying Random Forest as top perform

## Education

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### Bachelor of Technology in Computer Science and Engineering

2022 – 2026

Sagi Rama Krishnam Raju Enginnering College

CGPA: 8.52/10 (as of 6th semester)

### Intermediate in MPC domain

2020-2022

Narayana Junior College, Guntur.

percentage: 90

### Secondary school of education

2019-2020

Sarada High School, parchur.

CGPA: 9.7

## Certificates

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**Python for data science:** NPTEL - View Credential

**Introduction to Data Science:** EDX — View Credential

**ML-Connect:** Workshop conducted on machine learning basics — View Credential