



# MEGHA ASHOK RABAGANNAVAR

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## EDUCATION

**B.E in Computer Science and Engineering, SJCE**  
JSS Science and Technology University, Mysore

2022 – 2026  
CGPA: 9.17 / 10

## TECHNICAL SKILLS

**Languages:** Python, Java, C, SQL, JavaScript (Beginner), HTML, CSS

**ML/DL:** Supervised & Unsupervised Learning, CNN, RNN, ANN, Feature Engineering, Model Deployment

**Frameworks & Libraries:** Scikit-learn, TensorFlow, Pandas, NumPy, OpenCV, Librosa

**Tools & Platforms:** MLFlow, GitHub, Docker, Power BI, Flask, Google Colab, VS Code

**Databases:** MySQL, SQLite

**Big Data:** Apache Spark, Hadoop (Learning Phase)

**Core Subjects:** OOP(Java), Data Structures and Algorithms, Operating Systems, DBMS, Computer Networking


## PROJECTS

### 1. Agri Smart – ML, CNN, Flask, REST APIs

- Designed an integrated agriculture platform with **3 core modules**: crop recommendation, soil analysis, and disease detection.
- Trained models using datasets of **5,000+ records** for crop and soil, and **90000+ images** for plant diseases (CNN-based).
- Integrated external APIs for live **market rates and news**, with modular Flask backend.

 [GitHub](#)

### 2. Audio Deepfake Detection – CNN, Librosa, Flask, TensorFlow

- Developed a fake voice detection system using the **ASV spoof dataset (14,000 .wav files)**; converted audio to **mel spectrograms**.
- Trained a **4-layer CNN** (3×3 kernels, ReLU, max-pooling, SoftMax) achieving **99% test accuracy** over 10 epochs using Adam optimizer.
- Deployed a **Flask-based multi-page web app** with user login and admin dashboard; supported **real-time predictions with spectrogram and confidence score**.
- Applied **dropout, L1 regularization, and batch tuning** to reduce overfitting and improve generalization.
- Serialized model with **pickle**, integrated prediction pipeline in Flask, and ensured secure upload with basic authentication.  [GitHub](#)

### 3. Student Attendance Management System – Flask, SQL, JS

- Developed a role-based system for admins and teachers to manage attendance across **20+ classes**.
- SQL-based backend with normalized schema storing **3,000+ attendance logs**.
- Deployed via CI/CD pipeline; front-end optimized for low-bandwidth access.

 [Live Demo](#)

### 4. Student Performance Prediction – Supervised ML, Flask

- Processed academic and demographic data of **500+ students** to forecast grades and flag at-risk profiles.
- Trained multiple regression models and selected the best using **cross-validation and error metrics** (MAE, RMSE).
- Deployed a Flask-based web interface for educational stakeholders.

 [GitHub](#)

### 5. Snakes and Ladders Game – Java, DSA

- Developed an OOP-driven game logic with linked list-based board traversal and dice event handling.
- Applied core data structures and object-oriented design patterns to simulate classic gameplay.

 [GitHub](#)

## CERTIFICATIONS

- Generative AI with Google Cloud – Google Cloud, 2024
- Machine Learning with Python – Coursera, 2023

## ACHIEVEMENTS

- Amazon FFE Scholar (2024 Mentee)
- 2nd Prize – Algorithm Contest, Computer Society Club
- Completed FLY Program – Competitiveness Mindset Institute (USA), Communication, Time Management
- Languages Known: English, Kannada