MEGHA ASHOK RABAGANNAVAR

 megharashokashok@gmail.com  +91-9916591970  [LinkedIn](https://www.linkedin.com/in/megha-r-4a7522279) GitHub [GitHub](https://github.com/Megha-Ashok)  [LeetCode](https://leetcode.com/u/megha-ashok123/)

# EDUCATION

**B.E in Computer Science and Engineering**, SJCE 2022 – 2026

JSS Science and Technology University, Mysore *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)S, 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](https://github.com/Megha-Ashok/AgriTech)
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](https://github.com/Megha-Ashok/deep_fake)
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](https://smartattendence.rf.gd/)
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](https://github.com/Megha-Ashok/Student_performance-_prediction)
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](https://github.com/Megha-Ashok/Snake_Ladder)

# 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**